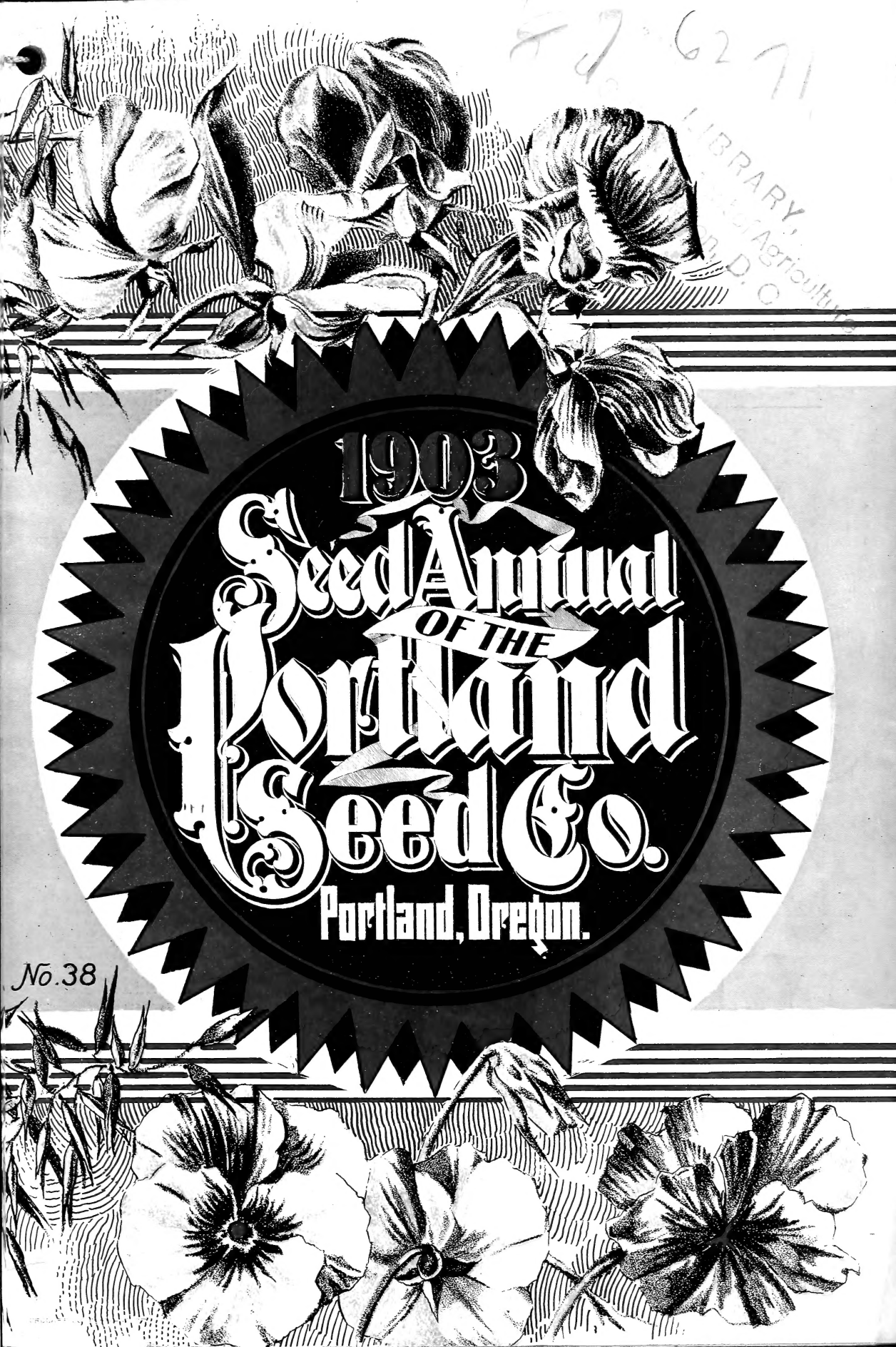


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1903

Seed Annual
OF THE
Portland
Seed Co.

Portland, Oregon.

No. 38



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FREE PREMIUMS.

We like to be just as generous with our customers as we possibly can. Aside from furnishing you the very best seeds that grow, and the best stocks obtainable in our other lines, we give away with certain sized orders the following:

With an order amounting to \$5.00 or over, your choice of 1 Oregon Strawberry Plant, price 25c., 1 lb. Shadeland Wonder Oats, price 25c., or any 25c. Book listed in this Catalogue.

With an order amounting to \$10.00 or over, 3 Oregon Strawberry Plants, worth 75c., 3 lbs. Shadeland Wonder Oats, worth 75c., or any 50c. Book we list.

If you select these premiums, you are not entitled to our special offer on page 1.

These cost you nothing. We give them to you free, to show you that we appreciate your orders.

We pay one cent per name for good addresses. See back of Order Sheet.

Weight of Various	Quantity of Seed requisite to produce a given number of Plants and sow an Acre.	Quantity per Acre.
Articles.		
Per Bush.		
Barley .....48 lbs.	Artichoke, 1 oz. to 500 plants.....6 oz.	Grass, Orchard, Perennial Rye.
Beans .....60 lbs.	Asparagus, 1 oz. to 800 plants.....1 lb.	Red Top, Fowl Meadow and
Buckwheat .....48 lbs.	Asparagus Roots .....5000 to 7250	Wood Meadow .....2 bu.
Blue Grass, Ky.....14 lbs.	Barley .....2½ bu.	Horse Radish Roots .....10,000 to 15,000
Blue Grass, English.24 lbs.	Beans, dwarf, 1 pint to 100 ft. of	Kale, 1 oz. to 5000 plants.....2 oz.
Canary Seed .....60 lbs.	drill .....1 bu.	Kohl Rabi, 1-3 oz. to 100 ft. of
Cheat .....34 lbs.	Beans, pole, 1 pint to 100 hills...½ bu.	drill .....4 lbs.
Clover Seed .....60 lbs.	Beet, garden, 1 oz. to 100 ft. of	Leek, 1-3 oz. to 100 feet of drill...4 lbs.
Corn-wheat .....60 lbs.	drill .....7 lbs.	Lettuce, ¼ oz. to 100 feet of drill.3 lbs.
Corn, shelled .....56 lbs.	Beet, Mangel, 1 oz. to 100 feet of	Millet, for seed 15 lbs., for hay.30 lbs.
Charcoal .....22 lbs.	drill .....5 lbs.	Melon, Musk, 1 oz. to 100 hills
Flax Seed .....56 lbs.	Brocoli, 1 oz. to 5000 plants.....2 oz.	.....2 to 3 lbs.
Hemp Seed .....44 lbs.	Brussels Sprouts, 1 oz. to 5000	Melon, Water, 4 oz. to 100 hills
Hungarian .....48 lbs.	plants .....2 oz.	.....2 to 4 lbs.
Millet .....50 lbs.	Buckwheat .....1 bu.	Nasturtium, 2 oz. to 100 ft. of
Oats .....32 lbs.	Cabbage, 1 oz. to 5000 plants.....2 oz.	drill .....15 lbs.
Orchard Grass.....14 lbs.	Carrot, ¼ oz. to 100 feet of drill.2½ lbs.	Oats .....2 to 3 bu.
Peach Pits .....48 lbs.	Cauliflower, 1 oz. to 5000 plants..2½ oz.	Okra, 1 oz. to 100 ft. of drill.....8 lbs.
Peas, smooth .....60 lbs.	Chicory, 1 oz. to 15,000 plants .....2 oz.	Onion Seed, 1-3 oz. to 100 ft. of
Peas, wrinkled .....56 lbs.	Cheat .....2 bu.	drill .....4 to 5 lbs.
Perennial Rye .....20 lbs.	Chicory .....4 lbs.	Onion Seed for Sets.....40 to 80 lbs.
Potatoes, heaping	Clover, Alsike and White.....8 to 10 lbs.	Onion Sets, 1 qt. to 40 ft. of drill.8 bu.
measure .....60 lbs.	Clover, Lucerne.....15 to 25 lbs.	Parsnip, ¼ oz. to 100 ft. of drill.3 lbs.
Rape .....50 lbs.	Clover, Crimson Trefoil.....10 to 15 lbs.	Parsley, ¼ oz. to 100 ft. of drill.3 lbs.
Rye .....56 lbs.	Clover, Large Red and Medium,	Peas, garden, 1 pint to 100 ft. of
Red Top .....14 lbs.	.....10 to 15 lbs.	drill .....1 to 2 bu.
Speltz .....46 lbs.	Collards, 1 oz. to 5000 plants.....2 oz.	Peas, field .....2 bu.
Timothy Seed .....45 lbs.	Corn-wheat .....100 lbs.	Pepper, 1 oz. to 1500 plants.....3 oz.
Vetches .....70 lbs.	Corn, Rice (shelled).....4 qts.	Pumpkin, 1-3 qt. to 100 hills...3 to 4 lbs.
Wheat .....60 lbs.	Corn, Sweet, ¼ pint to 100 hills...6 qts.	Radish, 2-3 oz. to 100 feet of drill.
	Cress, ¾ oz. to 100 ft. of drill.....12 lbs.	Rape .....5 to 10 lbs.
	Cucumber, 1 oz. to 100 hills...1 to 3 lbs.	Rye .....1½ bu.
	Egg Plant, 1 oz. to 2000 plants.....4 oz.	Salsify, ¾ oz. to 100 ft. of drill.8 lbs.
	Endive, ¼ oz. to 100 ft. of drill.4½ lbs.	Speltz .....100 lbs.
	Flax, broadcast .....½ bu.	Spinage, ½ oz. to 100 ft. of drill.8 lbs.
	Grass, Blue, Kentucky .....2 bu.	Sunflower .....8 lbs.
	Grass, Blue, English .....1 bu.	Squash, Summer, 4 oz. to 100 hills.2 lbs.
	Grass, Hungarian and Millet.....½ bu.	Squash, Winter, 8 oz. to 100 hills.2 lbs.
	Grass, Mixed Lawn.....3 to 5 bu.	Tomato, 1 oz. to 4500 plants.....1 oz.
	Grass, Red Top, Fancy Clean	Tobacco, 1 oz. to 5000 plants.....2 oz.
	.....12 lbs	Turnip, 1 oz. to 250 ft. of drill
	Grass, Timothy .....¼ bu.	.....1 to 3 lbs.

ORDER SHEET

PORTLAND SEED COMPANY

COR. FRONT AND YAMHILL STS., PORTLAND, ORE.

GENTLEMEN:—Send me the goods named below according to the terms as specified in your 1903 Catalogue.

TERMS—CASH WITH ORDER.

To (Name) _____

Post Office _____

Station _____

County _____

State _____ Date _____

Send by _____

State if wanted by Mail; Express (and Company); Freight (and Route); Steamer (and Line).

Do not write in this Space.

M. ORDER.

EX. ORDER.

DRAFT.

CHECK.

COIN.

STAMPS.

CURRENCY.

INDEXED.

C. B. PAGE.

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FOR PREMIUMS SEE PAGE ONE AND INSIDE FRONT COVER.

PORTLAND SEED COMPANY'S

No. 38

1903

No. 38

DESCRIPTIVE AND PRICED SEED ANNUAL

To the Friends and Customers of Buell Lamberson's Sons, as well as our own:

A few months ago we bought out the business of Buell Lamberson's Sons. We are now issuing a very large edition of our catalogue, so as to send one to each customer of the Lamberson Co. as well as our own. We trust that we may become better acquainted with those who are now comparatively strangers to us.

It always was, and still is, the policy of this company to offer only the best seeds and the best goods, in our different lines, that can be procured in this or any other country.

Our business during the past season has been larger and better than ever. We wish to thank you all for your kind and liberal patronage. We trust that our goods have given such satisfaction that we may again be favored with your orders.

Of those who have not had dealings with us, we ask that they favor us with at least a trial order. We are sure that when once acquainted with us, and our mode of doing business, they will become regular customers.

In taking in the Lamberson store we can do a larger and heavier business at a less expense. This enables us to make lower prices, which our customers get the benefit of.

Before this catalogue reaches you we will have begun remodelling and enlarging the Lamberson store, where we have decided to have our main offices and salesrooms. We now have two large seed stores, with a very large warehouse and large dock, in which to carry on our rapidly increasing trade. We have not formed a "trust" or a "combination" to raise the price of seeds, etc.; we simply bought up a seed business that was offered for sale.

Our capital stock has been largely increased, and we are spending a great deal of money so as to place ourselves in a position to serve you in the best possible manner, with accuracy and dispatch.

At the head of each department we have experienced men, who thoroughly understand their work. We employ the greatest number of experienced, progressive and reliable seedsmen to be found in the Northwest. This insures you against errors and mistakes which are so damaging and annoying where new help is employed.

Our line of Seeds, Poultry and Bee Supplies, Spray Pumps, etc., cannot be equalled west of the Rockies. We are here for straight, honest business; here to stay, and here at your service. Can we serve you? Remember, we always look after the interests of our customers. You get the benefit of our experience and study. We offer you only the best goods, and at prices as low as such goods can be sold for; and we sell no other.

Our Catalogue this year is larger and more complete than ever, and contains information which we are sure will be of value to you. We trust that you will give it a careful reading and favor us with your valued orders.

Wishing you a happy and most prosperous season, we are,

Yours truly,

PORTLAND SEED COMPANY.

HOW TO SEND MONEY. Remittances should be made by Postoffice or Express Money Order, Bank Draft, or Registered Letter. Postage stamps will be received for small amounts. Remittances in any other way are entirely at sender's risk.

HOW TO ORDER. Please use the order sheets found in the front part of every Catalogue, carefully filling out the blank spaces at the top for shipping directions.

BE SURE TO SIGN YOUR NAME, and give Postoffice and State. And to avoid mistakes, do not write letters on the same sheet as orders.

SEEDS POSTPAID BY MAIL. We send all vegetables and flower seeds in quantities of one pound or less by mail, postpaid, to any Postoffice in the United States, at the prices named in this Catalogue, unless otherwise stated.

BY FREIGHT OR EXPRESS. In ordering vegetables or flower seeds to be sent by freight or express at your expense, deduct 10 cents per pound from single pound prices, where postage has been added.

PREPAY STATIONS. When you send in orders to go by freight or express, be sure that you add money enough to pay freight charges if your station is a prepay, which is always the case where there is no regular agent.

We use every precaution in procuring fresh, pure and reliable seeds, etc., but it will not be possible for us to hold ourselves responsible for the growth, yield or failure of the crop in any respect. If our goods are not accepted on these terms they must be returned at once.

WHEN TO ORDER. New goods are all in, and we are prepared to fill orders as soon as this Catalogue reaches you. Send in your combined orders for seeds, plants, supplies, etc., at once, and if you do not want all sent now we will send part now and balance of order later. The advantage of this is that your order is entered and filed, or stock reserved for it; and when you do want it, it can be sent upon notice to do so, with no delay. If you want part or all of your order held, state it distinctly, with date when shipment is to be made.

LARGE ORDERS. Any dealer, market gardener, institution or individual wishing seed in large quantities, is requested to mail us a list of what is wanted, and we will promptly return it, with the very lowest market prices. A LETTER OF INQUIRY MAY SAVE YOU DOLLARS if you want to buy in quantity.

COMPLAINTS OR PRAISES. If you are well pleased with our goods, and manner of doing business, tell everyone. If you are not, tell us, so we can please you. Our best efforts will be put forth in filling all orders carefully, and with the additional room and facilities we hope to get along the coming season without an error of any kind. Let us have your orders early, and we promise to please you.

VEGETABLE SEED DEPARTMENT.

The following varieties may be relied on as distinctive and valuable, and the directions given for culture, if practically followed, will insure success.



WHAT WE OFFER

At prices named we pay postage on all Vegetable and Flower Seeds ordered, by the packet, ounce or pound, excepting Peas, Beans and Corn, for which, if wanted by mail, add 10 cents per pound for postage. In ordering Vegetable or Flower Seed to be sent by express or freight at your expense, deduct 10 cents per pound from single pound price, excepting for Peas, Beans, Corn and Onion Sets.

Special Rates on Seeds in Packets or Ounces.

This offer is by mail, postage paid by us, to any postoffice in the United States.

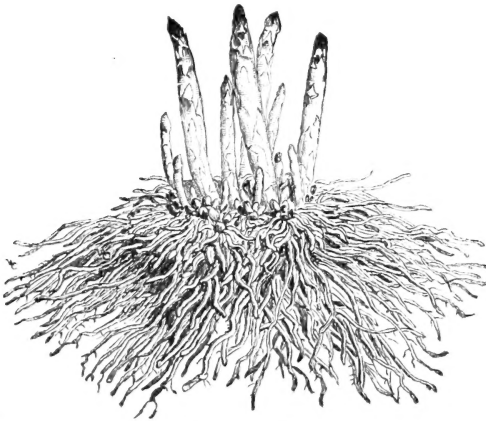
For remittance of \$1.00 you may select seeds, in pkts. or ozs. only, valued at \$1.25, you save \$.25
For remittance of \$2.00 you may select seeds, in pkts. or ozs. only, valued at \$2.60, you save \$.60
For remittance of \$3.00 you may select seeds, in pkts. or ozs. only, valued at \$4.00, you save \$1.00
For remittance of \$4.00 you may select seeds, in pkts. or ozs. only, valued at \$5.35, you save \$1.35
For remittance of \$5.00 you may select seeds, in pkts. or ozs. only, valued at \$6.65, you save \$1.65

This premium does not apply where any other premium is taken.

The varieties of vegetable seeds listed have been selected with great care and thoroughly tested. We are constantly adding new and improved kinds as come to our notice, but offer no old variety under a different name as a novelty. Should any customer desire seeds not listed we shall be pleased to procure them.

Asparagus.

Asparagus is one of the earliest spring vegetables, and would be in universal use were it not for the mistaken idea that it is difficult to grow. In reality it can be produced very easily and cheaply. A bed 15x50 feet, requiring about 100 plants, should give an abundant supply for an ordinary family.



ASPARAGUS.

Showing Fruit and Roots.

COLUMBIAN MAMMOTH WHITE.

A newer, distinct and valuable variety. The stalks are white, of the largest size; very productive and early.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

CONNOVER'S COLOSSAL.

A large and rapid grower, of excellent quality.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

PALMETTO.

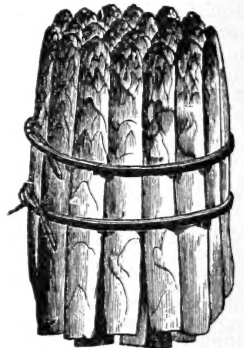
This is claimed to be an earlier, better yielder and more even grower than Colossal.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

ASPARAGUS CULTURE.

We have several good books on this subject. See Book List. Consult Index.

CULTURE.—Soak the seed 24 hours in warm water, and sow early in drills one foot apart. An ounce of seed will sow about 30 feet of drill. Keep the soil mellow and free from weeds. After one year's growth, transplant into permanent beds. A warm, sandy soil is the best, and one which has for some years been cultivated in garden crops and heavily manured is greatly to be preferred to a fresh soil. But at no period of its growth should the asparagus crop be allowed to lack for manuring. From one to three years' time can be saved by buying roots of us. For prices see page 66. 7260 roots will plant an acre.



ASPARAGUS.

Bunched.

ARTICHOKE.

LARGE GREEN GLOBE.

The variety used as a table vegetable. The edible portion is the thick end of the leaf of the flower head. Sow early in drills one foot apart, and when about 10 inches high transplant into rows four feet apart each way. It will produce only a small crop the first year, but will continue in good bearing five years. Cut before the bud opens.

Pkt., 5c.; oz., 30c.

ARTICHOKE TUBERS.

For prices and description of this valuable feed root, see Farm and Field Seeds, page 52.

BEANS, Dwarf or Bush, Wax or Yellow Podded Kinds.

CULTURE.—The soil best adapted for growing Beans is a light, rich, well-drained loam, which was well manured for the previous crop. If the ground is too freshly manured the plants are apt to run to vines and set few blossoms. Plant in drills about two inches deep and from 18 in. to 2 ft. apart, as soon as the ground is dry enough. Beans are very sensitive to cold and wet before they have sprouted, but are not so liable to be damaged after they are above ground.

If ordered sent by mail, add 10c. per lb. for postage.

Davis Wax.

A handsome, white-seeded wax variety that is becoming more popular each year.

It is a rustless and immensely productive bush variety. The pods are long, nearly straight, white and handsome, and are carried well up from off the ground.

It is one of the best for market gardeners, because of its hardiness, productiveness, handsome appearance, its good shipping and selling qualities and the small proportion of waste and second-quality pods. Canners say: "It is just what we want—a long, straight, clear white pod, which does not discolor in canning."

The dried Bean is kidney-shaped, clear white, and a favorite for baking and canning.

Pkt., 10c.; lb., 15c.

Golden Wax.

Has for many years been the best bean for general use in cultivation, and even now it is a competitor with the newer sorts for first place. Vines medium size, erect, moderately spreading. Very hardy and productive, with small, smooth leaves and small white blossoms.

Pkt., 10c.; lb., 15c.

DETROIT WAX. (Rust Proof).

One of the Best for Shipping Long Distances.

Excelling in some respects any other wax variety. Is not likely to rust, even when exposed to very wet weather. Pods flat, good length and very broad. Its quality of keeping fresh and crisp a long time after being picked makes it valuable for shipping long distances. It is extra early; quality in the pod all that can be desired, and also excellent green shelled.

Pkt., 10c.; lb., 15c.

Extra Early Challenge Black Wax

Extremely Early, about a week in advance of any other wax variety, and considered one of the most desirable for first crop.

Market gardeners and others, to whom earliness is a matter of prime importance, cannot afford to be without this, which is truly the "earliest of all" wax beans.

Pkt., 10c.; lb., 15c.

BLACK-EYED WAX.

Vines medium size, pods long, straight, proportionately narrow and rounder than those of the Golden Wax, and of a lighter color. They cook quickly, both as snap and as shell beans. As early as the Golden Wax and of very good quality.

Pkt., 10c.; lb., 25c.

GOLDEN-EYED WAX.

This is an early and vigorous growing variety, yielding a great profusion of tender pods of a beautiful, waxy appearance, the vines growing about 1½ feet high, holding the pods well off the ground. It is singularly free from blight and rust.

Pkt., 10c.; 1 lb., 15c.

GERMAN WAX (White Seeded.)

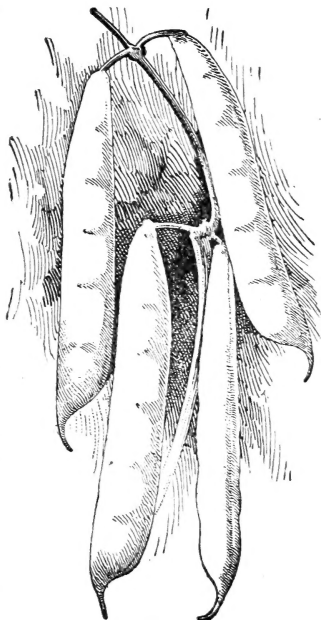
Much resembling the Black Seeded, except that pods are larger. The bean, being white, is preferred dry by some for winter use.

Pkt., 10c.; 1 lb., 15c.

Gardeners who buy Beans in large amounts should write for special prices.



DAVIS WAX.



DETROIT WAX.

Wax Varieties—Continued.

WARDWELL'S KIDNEY WAX.

A robust, hardy variety, yielding a heavy crop of large, unusually handsome, wax-like pods. Vines are of medium size, with long, flat pods of a delicate waxy yellow, very brittle and entirely stringless. We recommend this bean highly. Pkt., 10c.; lb., 15c.



THE CONSOLIDATION.

Upon taking the Lamberson business we find on hand a large supply of printed matter, especially small seed packets ready to be filled. As these are nice, new packets, we have decided to use them. So, if you should receive some, please remember that they are not old stock, but CONTAIN NEW SEEDS.

BEANS, Dwarf or Bush, Green Podded Kinds.

If ordering Beans by mail, add 10c per pound for postage.

EARLY MOHAWK.

The hardiest of all the bush kinds, and may safely be planted a week earlier than any other. The pods are pale green, large and broad. The vines continue in bearing a long time, and will withstand a light frost. The bean is large, dark purple and brown mottled. Pkt., 10c.; 1 lb., 15c.

STRINGLESS GREEN PODDED.

The only stringless green pod bush bean in cultivation. Consequently it surpasses all others in crisp, tender flavor.

The finely shaped, long, green pods are absolutely stringless, and are ready to market two weeks earlier than any other green podded bean. The Stringless Green Pod will supply a long felt want. It must prove of immense value, not only to the market gardener who wants to make more money, but also to the amateur who seeks a rare quality early for the home table. Pkt., 10c.; 1 lb., 20c.

EARLY LONG YELLOW SIX WEEKS.

Hardy standard variety; pods six inches long and one-half inch wide; light green in color; vine vigorous and productive. Pkt., 10c.; 1 lb., 15c.

Extra Early Red Valentine.

IMPROVED ROUND POD.

Is of healthy, vigorous growth, and has no superior in any respect among the green podded kinds. The pods are round, very fleshy, tender, rich and quite stringless. The bean is rather small, and when ripe usually irregular in form and red in color. Considered a very fine bean for canning green. Pkt., 10c.; 1 lb., 15c.

DWARF LIMAS listed with the Pole Limas, next page.



BURPEE'S NEW STRINGLESS.

EXTRA EARLY REFUGEE.

Said to be the earliest green podded variety, fit for the table two weeks in advance of the old Refugee, and retaining all the good qualities of that standard sort. Pkt., 10c.; 1 lb., 15c.

REFUGEE, OR THOUSAND TO ONE.

The best late kind for snaps and very productive. The pods are dark green, veined with purple, tender and crisp, and considered the best variety for pickling. The bean is rather small, oblong, dark purple to black, mottled with light yellowish brown. Pkt., 10c.; 1 lb., 15c.

DWARF HORTICULTURAL.

Stock erect, strong and shrubby. The bean is highly prized, green shelled, being preferred by some to the Lima. It is rather large and plump and beautifully mottled yellow and red. Pkt., 10c.; 1 lb., 20c.

BROAD WINDSOR.

Stock erect, strong and shrubby. The bean is large, broad and flat; it is best green shelled. To insure well filled pods, pinch off the top of the stalk and the ends of the shoots when the pods are forming. Pkt., 10c.; 1 lb., 15c.

ROYAL WHITE KIDNEY.

This bean is large, long, slightly curved, and pure white. It yields a heavy crop and is one of the best, either green shelled or dry. Pkt., 10c.; 1 lb., 15c.

IMPROVED TREE BEAN.

The most prolific field variety. Grows twenty inches high and branches out like a tree. Pkt., 10c.; 1 lb., 15c.; 10 lbs., \$1.00.

CASTOR BEAN.

Used for medicinal purposes and by some claimed to keep moles away. Pkt., 10c.; 1 lb., 25c.



REFUGEE.

Climbing or Pole Beans.

If ordering by mail, add 10c. per pound for postage.

Early Golden Cluster Wax.

An early and very beautiful sort. Vines large, strong, growing vigorous and hardy; pods six or eight inches long, borne in abundant clusters, each containing from three to six pods; these are broad, very thick and fleshy, deeply creased along the edge to which the beans are attached, and much curved; color bright golden yellow.

Of the very best quality and staying in condition for use a long time. The beans are also excellent shelled green. We recommend this variety as furnishing the largest and handsomest pods of any sort in the list.

Pkt., 10c.; lb., 20c.

INDIAN CHIEF, OR TALL BLACK WAX.

Remarkable for its fine, tender and succulent pods, which are produced in great abundance.

Pkt., 10c.; lb., 20c.

LONDON HORTICULTURAL.

Very desirable for the family garden. Vines vigorous, bearing light green pods streaked with red. The bean is large, oval, cream colored, beautifully splashed with red, and has no superior, green shelled or dry.

Pkt., 10c.; 1 lb., 20c.

KENTUCKY WONDER.

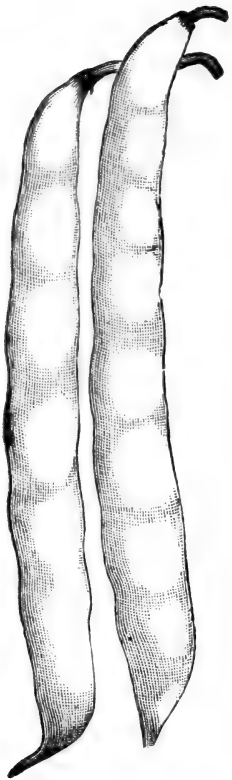
A vigorous, good climber, very prolific, bearing in clusters, extremely long and very fleshy; succulent pods, round, thick and remarkably tender. A first-class pole variety.

Pkt., 10c.; lb., 20c.

DUTCH CASE KNIFE.

Good corn hill bean, very early; pods are long and flat; beans white; used green or dry.

Pkt., 10c.; lb., 20c.



GOLDEN CLUSTER
WAX.

SCARLET RUNNER

A favorite as a snap Bean and for its flowers, which are bright scarlet; seeds broad and kidney-shaped.

Pkt., 10c.; 1 lb., 30c.

LAZY WIFE.

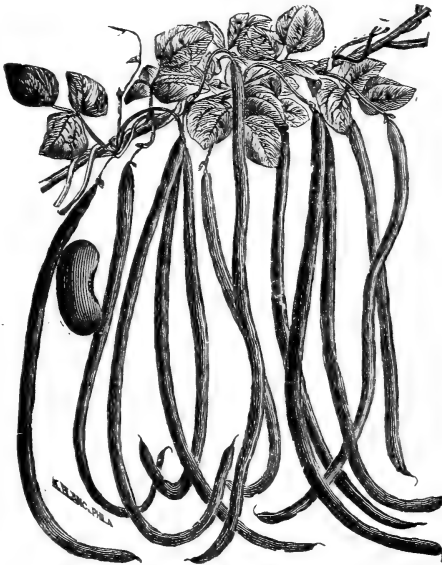
Long green pods of good quality; bean white.

Pkt., 10c.; 1 lb., 20c.

WHITE CREASE BACK.

A good early green podded pole bean.

Pkt., 10c.; 1 lb., 20c.



TRUE ASPARAGUS.

Asparagus.

This is the true "Asparagus Bean," not the so-called Asparagus put out by many seedmen. A very prolific sort, producing its long pods in large clusters. The pods, when young, are nearly round, of best flavor and are most excellent for snaps. This is one of the best and most profitable beans for the market gardener, the pods being so showy and produced in great abundance. Extensively used for canning

Pkt., 10c.; 1 lb., 25c.



DUTCH CASE KNIFE.

Lima Beans.

HENDERSON'S BUSH LIMA.

A small Lima Bean; early and prolific; desirable for early use.

Pkt., 10c.; 1 lb., 20c.

BURPEE'S BUSH LIMA.

This is a dwarf form of the Large Lima, producing beans as large and as fine in quality as the pole varieties. It is also a heavy yielder.

Pkt., 10c.; 1 lb., 25c.

DREER'S BUSH LIMA

A dwarf form of the Challenge Lima, having the same thick pods and large, thick beans which make the Challenge so popular.

Pkt., 10c.; 1 lb., 20c.

LARGE WHITE POLE LIMA.

Vine tall growing, vigorous, but slender; pods borne in clusters; long, broad, very thin, dark green; beans large, ovoid, kidney-shaped, greenish white, flat.

Pkt., 10c.; 1 lb., 20c.

BEETS—For Table Use.

The beet is prepared in various ways for the table, and is palatable and healthful. The White Sugar and Mangel Wurzel are more valuable for stock feeding, yielding enormous crops, but are also used for the table when young and tender. The White Sugar varieties are the kinds used in the manufacturing of sugar.

The round or turnip-shaped varieties, of which there are several kinds, are the best and most used for the table. The Long Dark Blood is also a table variety, though sometimes used for stock.

CULTURE.—The Beet is hardy and may be planted as soon as the ground can be well prepared, doing best in rich, sandy soil, sown in rows of sixteen inches apart, covered one and one-half inches deep. The seed will sprout better if soaked twenty-four hours in warm water before planting. Thin out by using the largest ones when they are of sufficient size, continuing until they are six to eight inches apart in the row. For field crop the rows should be far enough apart to permit the use of a horse cultivator.



**FOR
PREMIUMS.**
See
Index, inside
Front Cover.



**"THE
OREGON"—**
that new
Strawberry.
See page 67.



DETROIT DARK RED.

EX. EARLY MK'T GARDEN.

EARLY EGYPTIAN.

EXTRA EARLY MARKET GARDENER'S.

This new extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape; as an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance, and of superior quality for the table. We have never known a market gardener to try it but who wanted it again.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 70c.

IMPROVED EARLY BLOOD TURNIP.

An extra selected stock of blood turnip, having larger, coarser tops and roots than the Detroit Dark Red, and requiring a considerable longer time to mature. Excellent for summer and autumn use.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 60c.

DETROIT DARK RED TURNIP.

A fine Beet for bunching for market; tops exceptionally small and uniformly upright. Roots are perfect turnip-shape, with small tap-roots. One of the deepest red beets. Quality is of the very best; sweet and tender; well worthy of a trial.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 60c.

EDMAND'S EARLY BLOOD TURNIP.

Dark red flesh, zoned with a lighter shade; very crisp and tender; keeps sufficiently well to be used as either a summer or winter variety; very desirable addition to the list of turnip shaped sorts.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 50c.

Half Long Blood.

A new variety of excellent quality. One of the very best for winter use; does not become woody and keeps equally as well as the Long Dark Blood. The root is smooth and handsome, and the flesh as brilliant in color and good in quality as the best Blood Turnip varieties. We advise our customers to give it a trial.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 60c.

Long Smooth Dark Blood.

The leading late variety, keeping well all winter. Should be planted in rich, warm soil to secure rapid growth, which makes them tender. Top small, root long and smooth. Flesh deep purple, fine and sweet.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 60c.

SWISS CHARD, OR SEA KALE BEET.

Cultivated exclusively for its leaves and leaf stalk, which are prepared and served similar to asparagus, and are tender and delicious. If cut frequently, the young leaves reappear and make excellent greens, taking the place of spinach.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 50c.

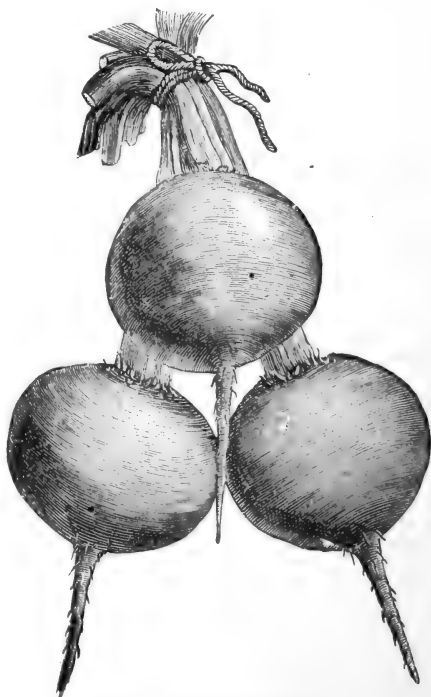
By many considered the best varieties for forcing, and is liked best by many market gardeners for the first early crop, being very early, with small top. Roots very dark red, rounded on top, but flat beneath, with very small tap roots.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 60c.

ECLIPSE.

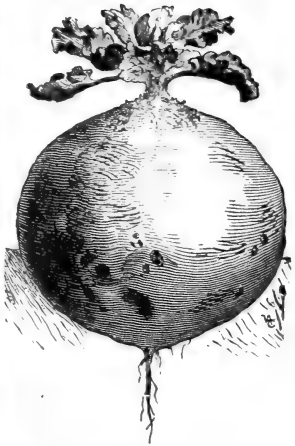
This variety has become exceedingly popular, and is one of the best early sorts. It possesses all the qualities requisite in a first-class beet, and is of a uniform globular shape. The roots are of a bright, glossy red, fine-grained and delicious, with none of that earthy flavor so objectionable in many varieties.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 65c.



EARLY ECLIPSE BEET.

Sugar Beets and Mangel-Wurzels.



ORANGE GLOBE

These are grown extensively for stock feeding, and afford large quantities of fresh, nutritious and wholesome food for stock during the winter months, in connection with grain and dried forage. Sugar Beets are richer and sweeter than Mangels, but the latter will generally produce one-third to one-half heavier crops per acre, and hence are preferred by many farmers.

FRENCH WHITE SUGAR.

The sort most generally grown in France, as it combines with heavy yield a good percentage of sugar. It has produced 30 tons of beets to the acre, and contains from 10 to 13 per cent. of sugar. The largest yields known have been obtained with this variety

Pkt., 5c.; $\frac{1}{4}$ lb., 15c.; 1 lb., 40c.

LANE'S IMPERIAL SUGAR.

This is an excellent variety and one of the best for stock feeding.

Pkt., 5c.; $\frac{1}{4}$ lb., 15c.; 1 lb., 40c.

VILMORIN'S IMPROVED SUGAR.

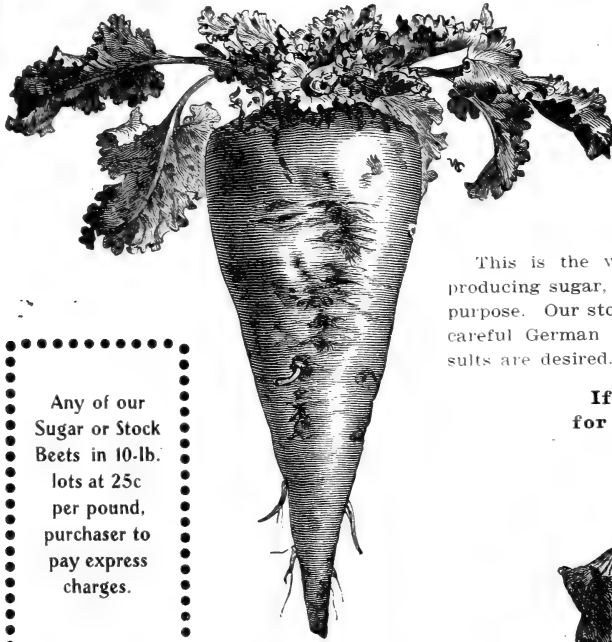
Very rich in sugar and does well on new lands.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; 1 lb., 40c.

GERMAN IMPERIAL WHITE SUGAR.

It gives the best results raised in sandy soil, free from alkali. Good for stock.

Pkt., 5c.; 1 oz., 10c.; $\frac{1}{4}$ lb., 15c.; 1 lb., 40c.



KLEIN WANZLEBEN.

Any of our
Sugar or Stock
Beets in 10-lb.
lots at 25c
per pound,
purchaser to
pay express
charges.

SUGAR BEET SEED.

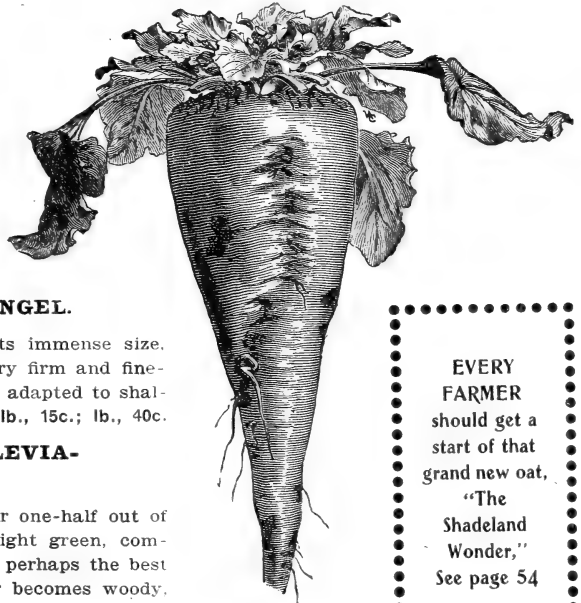
There is no crop where the quality of the seed used is of more importance than this. Our stock is raised by the very best growers, and we supply only the choicest strains.

KLEIN WANZLEBEN.

This is the variety which is considered best in Germany for producing sugar, and is now taking the lead in this country for this purpose. Our stock of seed is imported direct from one of the most careful German growers, and should be used where the best results are desired.

Pkt., 5c.; 1 oz., 10c.; $\frac{1}{4}$ lb., 20c.; 1 lb., 50c.

If you plant Beets in large quantities, write for special prices.

FRENCH
WHITE SUGAR.

YELLOW. or ORANGE GLOBE MANGEL.

Finest type of Yellow Globe in cultivation. Roots immense size, fine shape, small tap root, neat top. Flesh being very firm and fine-grained renders it an excellent keeping variety. Well adapted to shallow soils.

Pkt., 5c.; $\frac{1}{4}$ lb., 15c.; lb., 40c.

YELLOW GIANT, INTERMEDIATE, LEVIATHAN, OR GATE POST.

Roots long, olive-shaped, very large, growing over one-half out of the ground; flesh white, sweet and tender; tops bright green, comparatively small; neck small, short. We think this is perhaps the best of the yellow flesh beets, because its fine flesh never becomes woody, and its roots grow so well out of the ground that the crop is easily harvested.

Pkt., 5c.; $\frac{1}{4}$ lb., 15c.; lb., 40c.

EVERY
FARMER
should get a
start of that
grand new oat,
"The
Shadeland
Wonder,"
See page 54

Stock Beets or Mangel—Continued.

Three Favorite Beets for Stock Feeding.

New Mangel Half Sugar.

A new variety, very much more valuable for feeding purposes than the old sorts, it being very much richer. In addition to this, the size and form have been improved until it yields as much per acre as the best Mangels, and twice as much per acre (bulk of roots) as the rich sugar beet seed; is much easier handled, keeps better and is in every way most valuable to the farmer. Roots large, ovoid in form, very smooth, with few rootlets; white in color, with small top.

Pkt., 5c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

GOLDEN TANKARD.

Best for dairy farming. Considered indispensable among English dairy farmers; it is stated by them that they are able to obtain a higher price for milk when feeding cows on Golden Tankard. Sheep thrive on it. Other Mangels cut white, circled with yellow, but Golden Tankard is of a rich, deep yellow throughout. Early, hardy, and a heavy cropper, for on account of its shape the roots can be left standing close in rows.

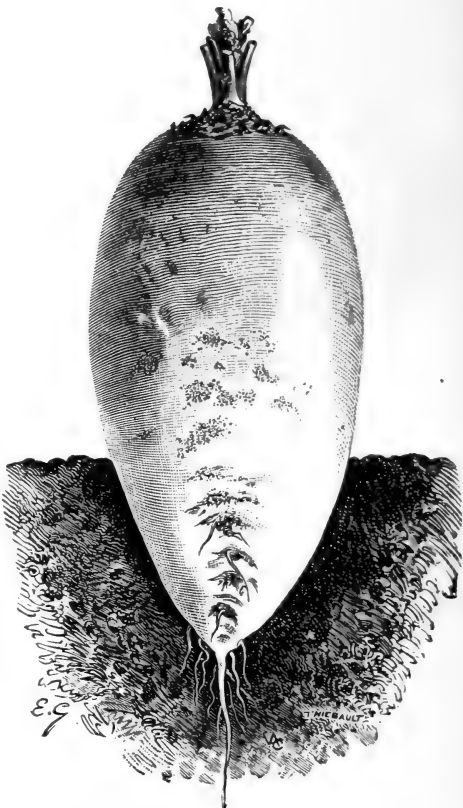
Pkt., 5c.; $\frac{1}{4}$ lb., 20c.; lb., 40c.

MAMMOTH LONG RED.

An improvement on the Long Red. It stands head and shoulders above all other varieties of Mangels; unequalled for yielding and feeding qualities. Grows to a very large size, weighing from 20 to 50 lbs.; and will yield 50 tons per acre with ordinary good cultivation. Thousands of Western farmers have grown our Mangel and call it the most profitable farm crop they ever tried. If you want large crops of large mangels of good quality, don't fail to try it. It is very uniform, smooth and of good shape. Should be grown in deep, loose soil.

Per Pkt., 5c.; $\frac{1}{4}$ lb., 15c.; lb., 35c. By Express, not prepaid, 5 lbs., \$1.50; 10 lbs., \$2.50.

Write us for prices on large quantities.



NEW MANGEL HALF SUGAR.

Brocoli.

Produces heads in the autumn like cauliflower, but is more hardy. Sow about the middle of May; transplant in well enriched soil and manage the same as winter cabbage.



BROCOLI

EARLY PURPLE CAPE.

A popular sort, hardy and heads well. The heads are large, of a brownish tint, and of excellent flavor.

Pkt., 5c.; oz., 35c.; 2 oz., 65c.; $\frac{1}{4}$ lb., \$1.15.

LARGE WHITE FRENCH.

A valuable variety, with large white heads, firm and of good flavor.

Pkt., 5c.; oz., 35c.; 2 oz., 60c.; $\frac{1}{4}$ lb., \$1.00.

Brussels Sprouts.

The plants, which are very hardy, grow two or three feet high, and produce from the sides of the stalk numerous little sprouts, which resemble very small cabbages, one or two inches in diameter. The leaves should be broken down in the fall, to give the little heads more room to grow. They should be treated in all respects like winter cabbage or kale.

DWARF IMPROVED.

A carefully grown strain, very hardy, and giving compact round sprouts of large size and good quality.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.



BRUSSELS SPROUTS.

For plants of Brocoli and Brussels Sprouts, see page 64.

Cabbage.



EARLY YORK.

CULTURE.—The requisites for complete success are: First—Good seed; there is no vegetable where the seed has more influence on the quality of the product than in this, and gardeners should always use the best procurable. Second—Rich, well prepared ground. Third—Frequent and thorough cultivation. A heavy, moist and rich loam is most suitable, which should be highly manured and worked deep. Cabbage is universally grown all over the country, and specific directions regarding the time and methods of planting applicable to all localities cannot be given. In general, the early sorts should be sown very early in hot beds, hardened off by gradually exposing them to night air, and as early as the ground is in good condition transplanted, setting eighteen to thirty-six inches apart, according to size of variety.

The late autumn and winter varieties may be sown from the middle to the last of spring, and transplanted when four to six inches high. Shade and water the late sowings in dry weather to get them up. It is important that the plants should not be crowded in the seed bed, or they will run up weak and slender, and be likely to make long stems.

EXTRA EARLY KINDS.

Early Jersey Wakefield

Stands today in an exalted position among early cabbages. It is grown more exclusively for market than any other early cabbage. It is always of good size, very solid, and has but few outside leaves; a reliable header, and always gives good satisfaction.

The favorite Early Cabbage with our market gardeners. A sure header. The thick, stout leaves and compact habit make it the best for wintering over and very early setting. **VERY SELECT STOCK.**

Pkt., 5c.; oz., 30c.; 2 oz., 55c.; ¼ lb., 75c.; ½ lb., \$1.50
1 lb., \$2.50.



EARLY JERSEY WAKEFIELD.

EXTRA EARLY EXPRESS.

Produces fair sized heads in eighty to eighty-five days from sowing of seed.

Pkt., 5c.; 1 oz., 20c.; 2 oz., 35c.; ¼ lb., 60c.; 1 lb., \$2.00.

EARLY YORK.

Small, but very early.

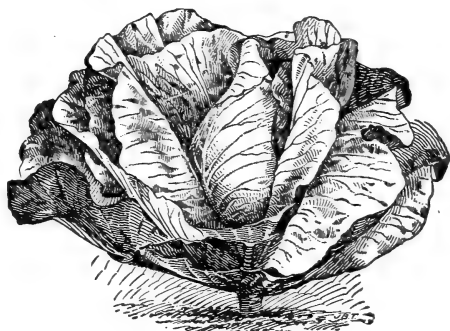
Pkt., 5c.; 1 oz., 15c.; 2 oz., 25c.; ¼ lb., 40c.; 1 lb., \$1.50.

Early Spring.

THE EARLIEST FLAT HEADED VARIETY.

A wonderfully compact plant, with few outer leaves, so that a great number of fine, solid heads can be produced on an acre. Although it does not come to full maturity as early as Jersey Wakefield, it becomes solid enough for use about as early, and is by far the best early sort for those markets that demand a large, round or flat cabbage. The plant is vigorous, with short stem. The leaves are large, broad, and of peculiar light green color. The heads are oval and very large for the size of the plant, nearly equaling those of the later kinds.

Pkt., 5c.; oz., 30c.; 2 oz., 50c.; ¼ lb., 90c.; 1 lb., \$3.00.



EARLY WINNIGSTADT.

Second Early Sorts.

EARLY WINNIGSTADT.

A desirable kind, having conical, solid heads; a sure header under almost any conditions, and keeps better than most early varieties. Fine, and of excellent quality. Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 60c.; 1 lb., \$2.00.

HENDERSON'S EARLY SUMMER.

About ten days later than the Jersey Wakefield. The head is round, and the largest of the early kinds; can be set close in the row, as the outer leaves are small. It remains long without bursting, is firm and of the best quality.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 65c.; 1 lb., \$2.25.

For Cabbage Plants, see page 66.



EARLY SPRING.

CABBAGE—Second Early.—Continued.

EARLY DWARF FLAT DUTCH.

A medium early kind, much resembling the Early Drumhead. It grows low on the stem, and is a sure header; firm, fine-grained, tender and excellent. Keeps almost as well as the late kinds.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 60c.; lb., \$2.00.

EARLY DRUMHEAD.

A standard medium early variety. Heads large, round, slightly flattened, and excellent for the family or market garden. It does not crack, and keeps well on in the winter.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 60c.; lb., \$1.75.

FOTTLER'S IMPROVED BRUNSWICK.

This is without exception the best Early Drumhead variety in the market, and is used by the market gardeners to succeed the earliest varieties; also for a late crop.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 60c.; lb., \$2.00.

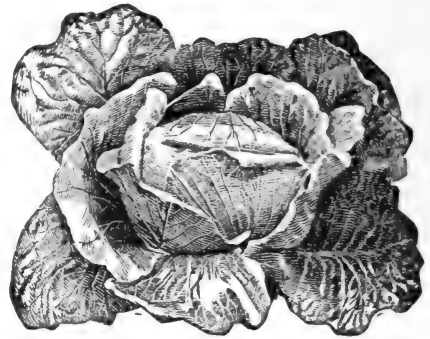
SURE HEAD.

Remarkable both for its certainty to head, and the ability to withstand drought. Compact, medium to large.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 60c.; lb., \$2.00.

CABBAGE PLANTS.

We grow the leading varieties by the thousands and can furnish, in season, choice, hardy plants in any quantities. For prices see list, page 66.



SUCCESSION.

SUCCESSION, OR ALL SEASONS.

Medium early; heads large, round, slightly flattened; grows low on the stem and resembles the Early Summer. Pkt., 5c.; 1 oz., 20c.; ¼ lb., 60c.; 1 lb., \$1.75.

GERMAN FILDERKRAUT.

Heads rather larger and more pointed than the Win-nigstadt, which it resembles. It is of superior quality and highly esteemed for making kraut.

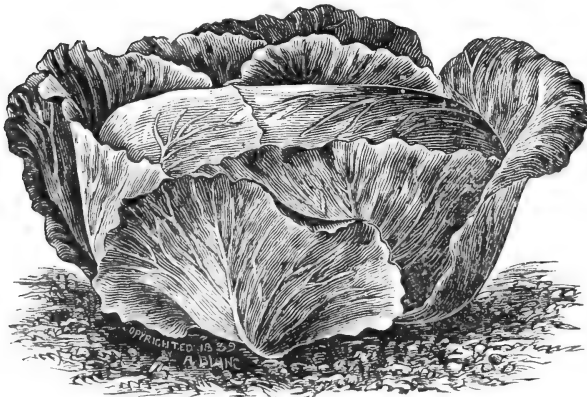
Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 60c.; lb., \$1.75.

CHARLESTON, OR LARGE WAKEFIELD.

Larger and a little later than the Early Jersey Wakefield, but having the same general shape.

Pkt., 5c.; oz., 25c.; 2 oz., 40c.; ¼ lb., 70c.; lb., \$2.50.

Late or Fall Sorts.



AUTUMN KING, OR WORLD BEATER.

PREMIUM LATE DRUMHEAD.

An improvement on the Large Drumhead, grows lower on the stem, is larger and matures earlier, but keeps quite as well, and has no superior in any respect for family and marketing purposes, either for medium early or late crop. The seed we offer is unsurpassed by any in the market.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 60c.; lb., \$1.75.

RED DUTCH.

Used for pickling. The heads are very fine and remarkably sure heading.

Pkt., 5c.; 1 oz., 20c.; ¼ lb., 60c.; 1 lb., \$1.75.

MAMMOTH ROCK RED.

True. This is the best, largest and most reliable heading red cabbage. The head is large, round solid and of a deep red color.

Pkt., 5c.; 1 oz., 20c.; ¼ lb., 65c.; 1 lb., \$2.00.

Autumn King, or World Beater.

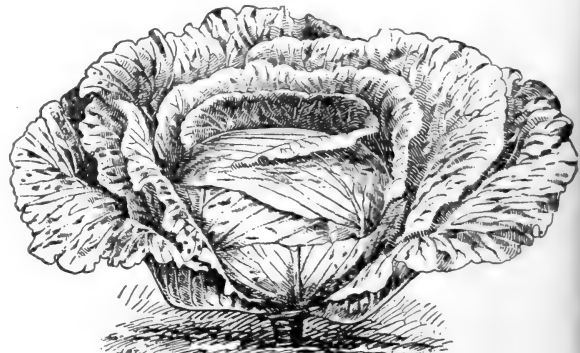
A sure header, very solid, fine-grained and tender. It grows quicker than any other large cabbage and will produce more to the acre. Color dark green, with a slight bronze or brownish tinge to the outer leaves. The heads are remarkably thick through, and will attain a great weight. Has a short stem and grows near the ground.

Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

STONE MASON MARBLE HEAD.

A large Drumhead variety, sure to head, fine-grained, tender and remarkably sweet and delicious. It is very hardy, enduring severe frost and easily kept all winter.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 60c.; 1 lb., \$2.00.



STONE MASON MARBLEHEAD.

CABBAGE, Late or Winter—Continued.



DANISH BALL HEAD.

MARBLEHEAD MAMMOTH DRUMHEAD.

The largest variety known; cultivated mostly on account of its enormous size, usually averaging thirty pounds, but sometimes attaining double that weight. It is hardy and a good keeper, but coarser and not as well flavored as most other kinds. Its common English name of Cow Cabbage indicates one of the uses of this variety.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 60c.; lb., \$2.00.

Premium Late Flat Dutch.

This is superior to any other late cabbage in cultivation, when large areas are planted for shipping. It possesses all the good qualities of the Late Flat Dutch, and is a sure header.

Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$1.75.

IMPROVED AMERICAN, or NETTED SAVOY.

Very valuable variety, being of much finer flavor and quality than the best of other cabbage. It is particularly adapted for private use, where quality rather than quantity is desired.

Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$1.75.

We take special care to have our stock of Cabbage Seed the very best, and we feel safe in recommending it as being of the very finest strain. We are sure that market gardeners who use our Cabbage Seed once will call for it again.

Hollander, or Danish Ball Head.

This is one of the hardiest cabbages in cultivation, and endures both frost and drought that would destroy other varieties.

Plants very hardy, rather long stemmed, but compact; the leaves are very smooth, but thick; the head is of medium size, round and very solid, being

The hardest heading cabbage we know of and of the very best quality.

Matures quite late, keeps well and is considered by many the best cabbage to hold over for spring markets.

Pkt., 5c.; oz., 25c.; 2 oz., 40c.; ¼ lb., 75c.; lb., \$2.50.



DRUMHEAD SAVOY.

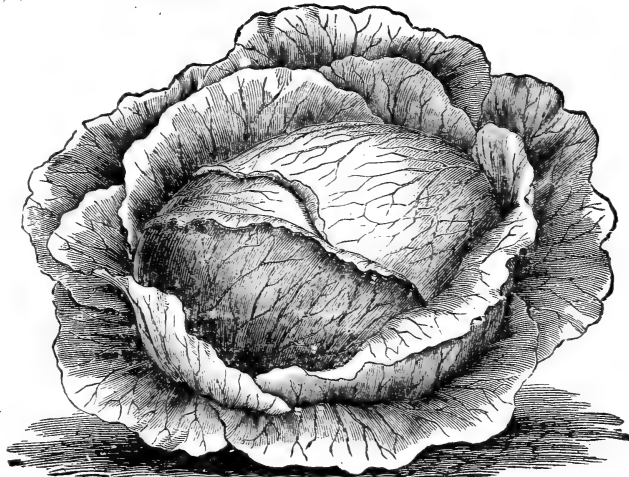
Forms large and compact head, very tender and excellent in winter, delicious, rich flavor.

Pkt., 5c.; 1 oz., 20c.

¼ lb., 60c.

1 lb., \$1.75.

SAVOY.



PREMIUM FLAT DUTCH.

CRESS.

CURLED, OR PEPPER GRASS.

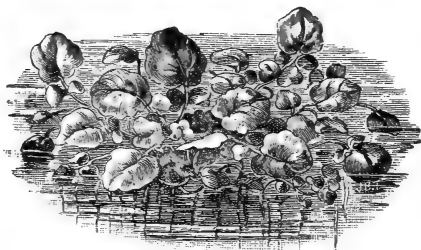
This salad is much used with lettuce, to which its warm, pungent taste makes an agreeable addition. The seed should be sown in drills about 16 inches apart, on very rich ground, and the plants well cultivated. It may be planted very early, but repeated sowings are necessary to secure a succession. Keep off insects by dusting with Pyrethrum Powder.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

TRUE WATER.

This is quite distinct from the last, and only thrives when its roots and stems are submerged in water. It is one of the most delicious of small salads, and should be planted wherever a suitable place can be found. The seed should be sown and lightly covered in gravelly, mucky lands, along the borders of small, rapid streams, and the plants will need no subsequent culture, as under favorable conditions they increase very rapidly by self-sown seed and extension of the roots.

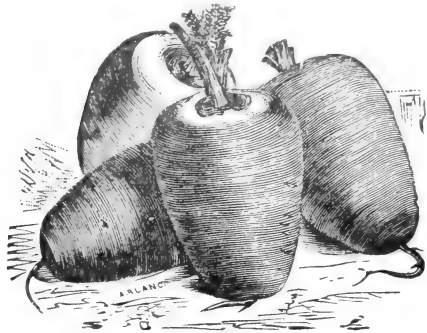
Pkt., 5c.; oz., 30c.; ¼ lb., \$1.00.



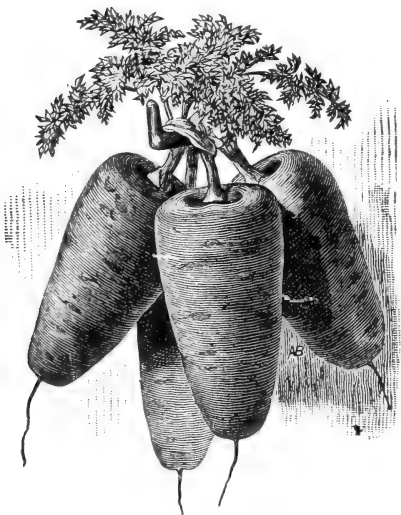
WATER CRESS.

CARROTS.

CULTURE.—While a sandy loam, made rich by manuring the previous year, is the best soil for the carrot, any good land, if thoroughly and deeply worked, will produce satisfactory crops. When it is possible to do so, it is advisable to sow as early in the spring as the ground is fit to work, though good crops may, in this latitude, be grown from sowing as late as June 15; but one is less certain of good crops from such late planting. For table use, sow the smaller kinds as early as practicable, in rows 16 to 18 inches apart, and for field culture prepare the ground thoroughly and sow in drills 18 to 24 inches apart, using from one and one-half to three pounds to the acre, according to the distance between rows. Cover one-half to one inch deep, and see to it that the soil is well firmed above the seed.



OXHEART.



CHANTENAY.



DANVERS HALF-LONG.

PORTLAND SEED COMPANY'S CHOICE CARROT SEEDS.

Our stocks are remarkably true to type. Gardeners wishing early strains which will mature uniformly; or longer, later sorts, where it is desirable to have the roots of even size, form and color for bunching, will find that our seed has been carefully grown with this aim in view.

EARLIEST SHORT HORN, OR FENCH (Forcing).

The earliest variety in cultivation, and best suited for forcing. Roots reddish brown, globular and about two inches in diameter; should be used before full grown.

Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

EARLY SCARLET HORN.

The best early kind for general use. It is larger than the forcing variety, but fully as good in quality, and produces a much larger crop.

Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., 85c.

Oxheart.

A thick carrot, five or six inches long and very blunt at the lower extremity. It grows very rapidly and the root attains a weight of more than a pound. It is tender and of good flavor; a variety we can recommend to all market gardeners.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Chantenay.

Tops medium size; necks small; roots tapering slightly but uniformly stump-rooted and smooth; color deep orange red; flesh very crisp and tender. Although this is a medium early sort, it furnishes roots of usable size as early as any; is a heavy cropper and is undoubtedly one of the best for both the market and private garden, while its great productiveness makes it very desirable as a field sort.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

EARLY HALF LONG SCARLET.

(Stump Rooted.)

Excellent for early market or table use; of medium size; flesh bright scarlet, brittle and of fine flavor.

Pkt., 5c.; oz., 10c.; ¼ lb., 35c.; lb., \$1.00.

Danvers Half Long.

Grown largely on account of its productiveness and adaptability to all classes of soil. Tops medium sized, coarsely divided. The smooth and handsome roots are orange, of medium length, tapering uniformly to a blunt point; flesh sweet, crisp, tender, deep orange in color. Although the roots of this variety are short, they produce as large bulk as the longer field sorts, and are more easily harvested.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

One ton of Carrots consumes 13 lbs. Potash.
2 lbs. Phosphoric Acid and 7 lbs. Nitrogen. By using our Commercial Fertilizer you replace these ingredients and keep the ground in a profitable condition. Fertilizers on page 81.

Gardeners who buy carrots in quantities should write for special prices.

CARROTS—Continued.

Three Good Stock Carrots.

To double the yield of carrots, use our **DIAMOND BRAND FERTILIZERS**. See page 81.

IMPROVED SHORT WHITE.

We think this distinct variety is destined to take first rank as a field carrot, owing to its enormous productiveness and the ease with which it can be harvested. Roots half long, smooth, very heavy at the shoulder, but tapering regularly to the point; color light green at the crown, pure white below; flesh rich, white, solid, crisp and of excellent flavor. This variety is a real acquisition as a heavy yielding, easily harvested white carrot, and is the best of this class. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

IMPROVED LONG ORANGE.

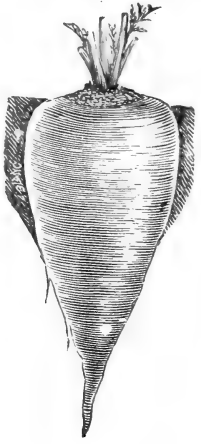
The most popular of the older sorts for farm use on mellow soil. An improvement obtained by years of careful selection of the best formed and deepest colored roots. It grows to a large size, some specimens averaging twelve inches in length. Enormous crops can be grown under fair culture; among the best varieties for feeding stock.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; 1 lb., 65c.

LARGE WHITE BELGIAN.

Extensively grown for stock feeding. The most productive of all. Grows much above ground, so that the entire crop can be pulled by hand. The White Belgian has recently been much improved, in the same manner as the Finest Long Orange, and is now larger and of finer quality than formerly. The stock we offer has no superior.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.



SHORT WHITE.



LONG ORANGE.

CORN SALAD.

FETTICUS, or LAMB'S LETTUCE.

A refreshing salad, used extensively in winter and spring as a substitute for lettuce. It is often cooked like spinach. Sow in drills one foot apart, in the spring or fall. On the approach of cold weather, cover with straw or coarse litter.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.



CORN SALAD.

Collards.

TRUE GEORGIA.

Used as "greens" mainly in the South and West. As the leaves are pulled off others grow in their places.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 30c.

Chervil.

CURLED.

This plant is used for flavoring soups and salads, and has a strong perfume.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 30c.

CHIVES.—See Vegetable Plant List, page 66.



CHICORY.

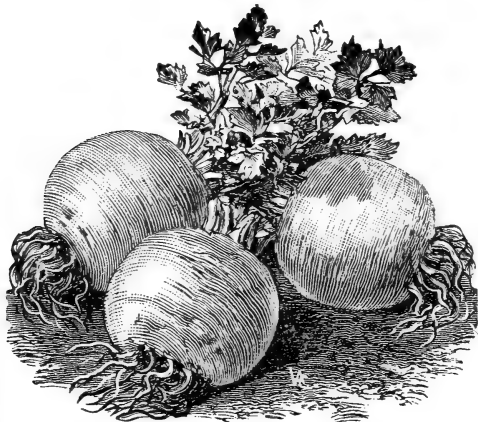
CHICORY.

Extensively used to adulterate coffee, and as a substitute for it. The culture is the same as for carrots. Dig at about the same time as carrots, wash, slice and dry by artificial heat. The blanched leaves are used by some for salad.

LARGE ROOTED, OR COFFEE.

The best kind.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.



CELERIAC.

CELERIAC, or Turnip-Rooted Celery.

LARGE, SMOOTH PRAGUE.

An improved form of turnip-rooted Celery; round, smooth, with very few side roots. This is the largest variety and one of the very best.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.

Cauliflower.

CULTURE.—The Cauliflower is the most delicious of all brassicas, and succeeds well in any soil where cabbage will grow. It delights in a rich soil and abundance of water. By sowing the early varieties in a hot-bed in February or March, or later in a cold frame, fine heads can be obtained quite early. For a later supply, sow seed in a prepared bed in May, choosing a cool, moist place. When large enough, transplant, making the rows about two and a half feet apart and eighteen inches between the plants. Transplanting should be done in moist weather. In dry seasons the crop must be watered. The young plants are frequently attacked by a little black beetle; its ravages may be stopped by frequent applications of plaster in the morning while the dew is on. For the cabbage-worm, apply insect powder. One ounce of seed produces about three thousand plants.

Portland Seed Co.'s Mt. Hood Early Snowball.

We have at last succeeded in obtaining a grand new strain of Snowball Cauliflower, which we shall put up in sealed packages only, under our own label. This strain is grown for us by one of the few expert cauliflower growers, and is the result of a series of experiments which has brought this seed up to the highest state of perfection.

This seed will produce those handsome, large, solid white heads that always bring the gardener big profits.

We recommend this for both early and late planting. Put up in sealed packages only.

Per Pkt., 25c.; $\frac{1}{2}$ oz., \$2.00; 1 oz., \$3.50.

THORBURN'S GILT EDGE EARLY SNOWBALL.

We have sold this very select strain for several years, and it has always given good satisfaction. Put up in 1 oz. sealed packages only. At \$3.50 each.

EARLY SNOWBALL.

Ordinary strain. Pkt., 5c.; 1 oz., \$1.00; $\frac{1}{4}$ lb., \$3.00.

Selected Extra Early Dwarf Erfurt

Remarkable for reliability in heading. Very dwarf, with solid, pure white heads of superior quality. If planted the first of March, heads nine to twelve inches in diameter will be ready early in June.

Pkt., 10c.; $\frac{1}{4}$ oz., 65c.; oz., \$2.00.

EARLY ERFURT.

Ordinary Strain. Pkt., 5c.; 1 oz., 75c.; $\frac{1}{4}$ lb., \$2.50.

EARLY PARIS.

A popular early sort. The heads are large, white, tender and excellent. Early and compact growing.

Pkt., 5c.; oz. 60c.; 2 oz., \$1.00; $\frac{1}{4}$ lb., \$1.75.

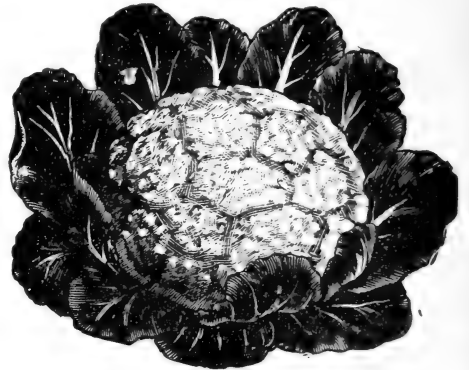
LARGE ALGIERS.

A valuable late sort, sure to head, of the best quality and very popular with market gardeners everywhere. Plant large, but of upright growth, the leaves protecting the heads so that they will endure uninjured a frost that would ruin other sorts. One of the very best of the late sorts.

Pkt., 5c.; oz., 80c.; 2 oz., \$1.50; $\frac{1}{4}$ lb., \$2.50.

VEITCH'S AUTUMN GIANT.

The heads are white, large, compact and thoroughly protected by foliage. Pkt., 5c.; oz., 50c.; $\frac{1}{4}$ lb., \$1.50.



EXTRA EARLY SNOWBALL.



EXTRA EARLY DWARF ERFURT.



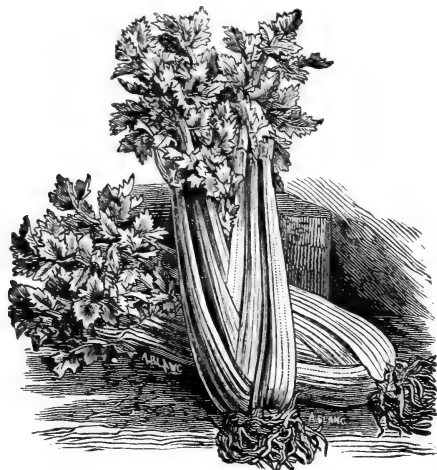
LARGE LATE ALGIERS.

CAULIFLOWER SEED.

Don't buy the cheap strains of Cauliflower Seed if you want to raise those handsome white heads. We would rather have one dozen plants from selected strains than one hundred from the ordinary. There is no finer seed grown than our Mt. Hood Snowball. Liberal applications of Nitrate of Soda and Kainit in Cauliflower culture are of great service.

Celery.

CULTURE.—Sow the seeds early in a hot-bed or cold frame. As soon as the plants are three inches high, transplant in a prepared border, setting them four inches apart. When grown six inches, and fine, stocky plants, set in richly manured, deep soil, in rows three and a half feet apart, and about nine inches from plant to plant. Water, if dry weather follows transplanting. During the next two months all the attention that is required is to keep down weeds. Afterwards earth up a little, and continue doing so at intervals until only the tops of the leaves are visible late in autumn. Never hoe up the earth when the plants are wet. One ounce of seed produces about four thousand plants.



HARTWELL'S PERFECTION.



GOLDEN YELLOW LARGE SOLID, OR GOLDEN SELF-BLANCHING.

White Plume.

THE LEADING WHITE CELERY.

A handsome, crisp sort, of very easy cultivation. Naturally its stalks and portions of its inner leaves and heart are white, so that by closing the stalks, either by tying or by simply drawing the soil up against the plant and pressing it together, the work of blanching is completed without the troublesome process of "banking" or "earthing up." It is the earliest Celery known.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

Golden Self-Blanching.

This is no doubt the best Celery for early market uses. Plants of a yellowish green color when young, but as they mature the inner stems and leaves turn a beautiful golden yellow, which adds much to their attractiveness and makes the work of blanching much easier.

Pkt., 5c.; oz., 25c.; $\frac{1}{4}$ lb., 90c.

GIANT PASCAL.

The largest variety grown; of fine, nutty flavor, and very easily blanching; deservedly popular for fall and winter use.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$1.75.

DWARF WHITE SOLID, OR KALAMAZOO.

Said to keep in good condition later in the season than any other variety.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.50.

GOLDEN HEARTED.

A variety of great value.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.50.

PERFECTION HEARTWELL.

The finest and largest of the winter varieties.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.50.

GIANT WHITE SOLID.

One of the largest; crisp, tender and of good flavor.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; 1 lb., \$1.25.

PINK PLUME.

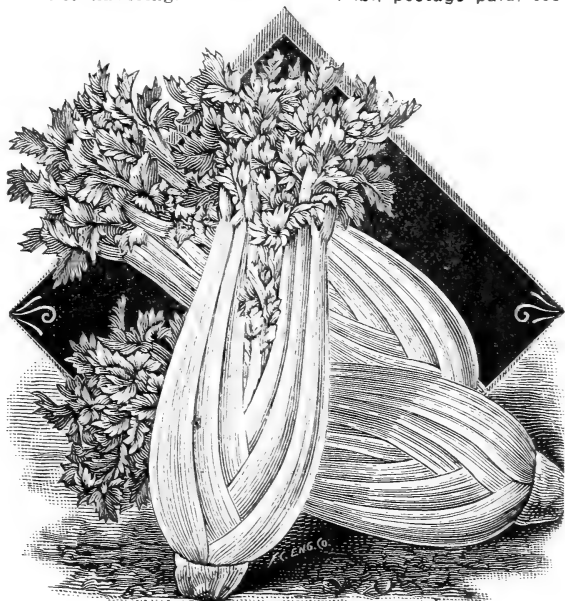
The same as White Plume, except in color.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

CELERY SEED.

For flavoring.

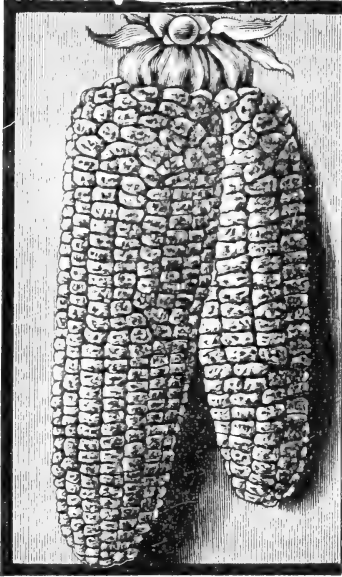
1 lb., postage paid, 35c.



CORN, Sweet or Sugar.

CULTURE.—Select a warm soil, if possible, especially for the earlier varieties, which should not be planted before the middle of May. Successive plantings should be made every two weeks till July. Plant in hills, three or four feet apart, in thoroughly manured soil. One quart to two hundred hills; ten quarts to an acre.

If ordered sent by mail, add 10c. per lb. for postage.



MAMMOTH WHITE CORY.

MAMMOTH WHITE CORY.

Largest and Best Extra Early Sweet Corn.

The stalks are no larger than those of the White Cob Cory, but each stalk furnishes two or more large, fine shaped ears, which are fit for use before those of most other sorts. The ears are twelve-rowed, very symmetrical and handsome, with no opening between the rows at the base. The grain is large, broad, very white and of remarkably good quality for such an early sort. The size and beauty of this variety gives it ready sale, even when the market is over-stocked.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

Early Fordhook.

This is the largest-eared extra early true Sweet Corn, averaging seven inches in length. It is two to three days earlier than the Cory, and has both grains and cobs of pure white coloring. The ears are eight-rowed, with quite small cob and deep grains. While similar in growth, it is greatly superior to the Cory in sweetness of flavor.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

KENDEL'S EARLY GIANT.

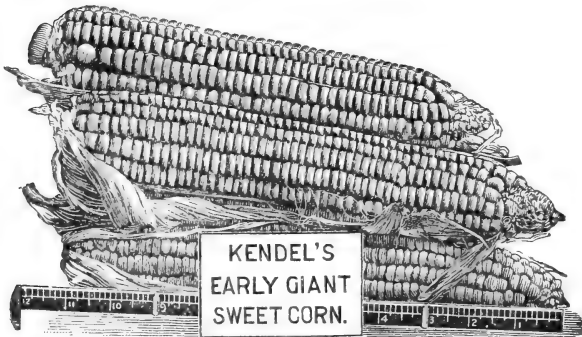
Very early, and yet the ears grow to a remarkable size, measuring 8 to 10 inches; white cobs and kernels, sweet and tender; good eating qualities.

Pkt., 10c.; 1 lb., 15c.; 10 lbs., \$1.00.

WHITE COB CORY.

An improvement on the Red Cobbed Cory, as well as being equally early. The ears are larger and it has the further advantage of having both a white cob and a white grain. A splendid market garden variety, and excellent for the table.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.00.



KENDEL'S
EARLY GIANT
SWEET CORN.

BUY
A CORN
PLANTER.
SEE
PAGE 74.

EARLY EVERGREEN.

The Best Second Early Sweet Corn.

As is well known, the famous Evergreen Sweet Corn originated over twenty years ago, but while it is the best variety of late Sweet Corn, no effort has ever been made to improve it in earliness until now. In the New Early Evergreen we have a selection possessing every good quality of Stowell's Evergreen, and resembling it in every respect, except that the stalk is about one foot shorter, more closely jointed, and that it will mature for market ten to fourteen days earlier. It is certainly a valuable addition to the corn list, and we advise all our customers to try this variety.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

EARLY ADAM'S,

OR BURLINGTON.

Not a Sweet Corn, but white and tender, and extensively used for the table. Pkt., 10c.; 1 lb., 15c.; 10 lbs. \$1.

Early Minnesota.

This old and deservedly popular variety is one of the best early sorts for the market and the private garden.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.00.

EXTRA EARLY CORY.

(Red Cob.)

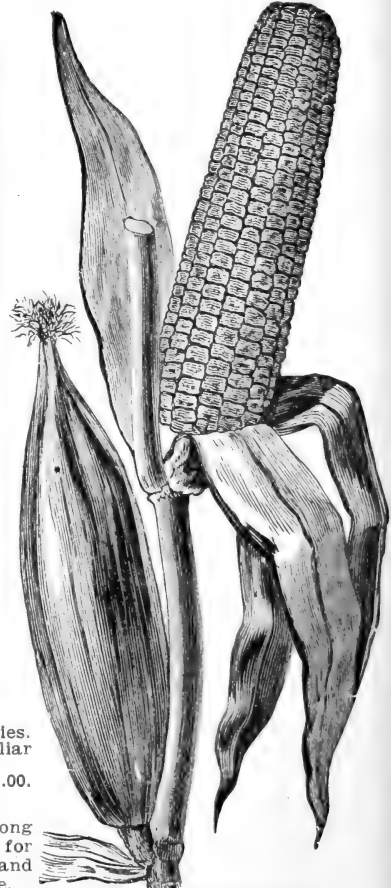
One of the earliest sweet varieties. When ripe the grains have a peculiar yellowish pink color.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.00.

STOWELL'S EVERGREEN.

Remarkable for remaining a long time in a fresh condition suitable for the table. Hardy and productive, and the best late variety for general use.

Pkt., 10c.; 1 lb., 15c.; 10 lbs., \$1.00.



EARLY EVERGREEN.

Sweet Corn—Continued.

CROSBY'S EARLY.

Early and a great favorite. Productive and of excellent quality.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.00.

MOORE'S EARLY CONCORD.

Sweet. medium early; excellent quality.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.00.

COUNTRY GENTLEMAN.

The sweetest and most tender of all Sweet Corns.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.00.

MAMMOTH SWEET.

Produces the largest ears of any variety of Sweet Corn. Very productive and of fine flavor. It is also valuable on account of its yield of stalks for fodder.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.00.

PERRY'S HYBRID.

The ears are large and grow low on the stalk. Kernels large, very white, tender and sweet.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.00.

BLACK MEXICAN.

One of the sweetest and most desirable for family use.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

LATE MAMMOTH SUGAR.

Late and one of the largest; productive and well flavored.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.00.

SWEET FODDER.

One of the best for green feed.

Lb., 10c.; 10 lbs., 75c.

If wanted in larger quantities write for special prices.

Field Corn.

If ordering by mail add 10c. per lb. for postage.

Field Corn is now recognized as one of the leading crops for fodder on the Pacific Coast. It is cut green and packed in silos, making an excellent green feed, particularly adapted for milch cows.

KING PHILIP.

An early Red Corn; well acclimated and well known.

Lb., 10c.; 10 lbs., 60c.

EARLY WHITE FLINT.

Productive, early and of beautiful appearance.

1 lb., 10c.; 10 lbs., 50c.

WHITE CAP YELLOW DENT.

This Corn combines more solid merit than any other, being suitable for all climates and soils where Corn can be expected to grow. Ears large and mature early.

1 lb., 15c.; 10 lbs., 50c.

LEAMING (Early).

An early selected variety of Yellow Corn, small grain, weighty, productive.

1 lb., 10c.; 10 lbs., 50c.

PRIDE OF THE NORTH, OR YELLOW DENT

Recommended, after repeated tests by the Agricultural College, as the best for Eastern Oregon, Washington and Idaho. A quick growing dent variety, thriving well where the summers are not very long. The kernels are of a beautiful golden color.

1 lb., 10c.; 10 lbs., 50c.

MINNESOTA KING (Dent).

Recommended by the Agricultural College as the best variety for Western Oregon and Washington. Smallest cob and longest grain. The ears are uniformly well filled out, and it will make more shelled corn to a given bulk of ears than any other variety. It is a beautiful golden yellow, and a good yielder.

1 lb., 10c.; 10 lbs., 60c.

CHAMPION WHITE PEARL.

A large white late dent variety, pearly white kernels. This variety is very popular with our dairymen on account of the great amount of green feed it makes.

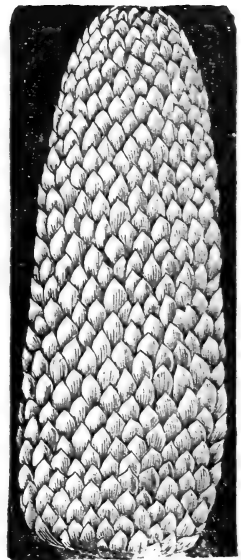
1 lb., 10c.; 10 lbs., 50c.

EARLY CANADA (Flint).

This is an eight-rowed Yellow Flint Corn; early and very productive.

Lb., 10c.; 10 lbs., 50c.

BUY A
CORN
PLANTER.
SEE
PAGE 74.



WHITE RICE.
POP CORN.

WHITE RICE.

The best for popping and for the general market, as it always commands a higher price than any other.

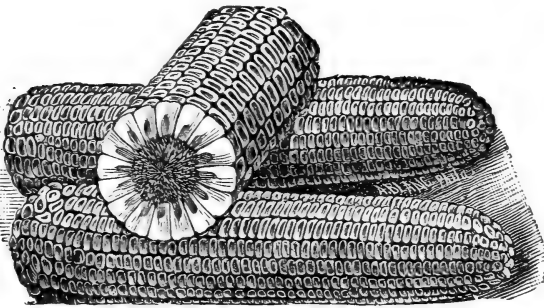
Pkt., 10c.; lb., 15c.



MINNESOTA KING.



WHITE PEARL.



PRIDE OF THE NORTH.

CUCUMBER.

CULTURE.—Cucumbers need a warm, sandy soil, and should not be planted in open ground until the weather is settled and warm, as otherwise they will not thrive. Plant in hills four feet apart each way, thinning to three or four of the strongest plants, after danger from insects is passed. Sprinkle the young plants with fine ashes, plaster or air-slaked lime, to protect them from bugs. As fast as the cucumbers attain suitable size they should be taken from the vine, whether required for use or not, as their ripening soon destroys the vine's fruitfulness. The fruit should be carefully shaded, as exposure to the sun causes the flesh to become bitter and tinted with green. When preparing cucumbers for the table all flesh so affected should be removed.

EARLY CLUSTER.

Fruit small and borne in pairs; light green and a great bearer. Pkt., 5c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.00.

BOSTON PICKLING, or GREEN PROLIFIC.

A distinct variety, very popular for pickles. Fruit short, very smooth and symmetrical, but pointed at each end; bright green and a great producer.

Pkt., 5c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.25.

EARLY SHORT GREEN, or EARLY FRAME.

A vigorous and productive variety, producing fruit of medium size and regular form; flesh crisp and tender; excellent for the table, or for pickling while small.

Pkt., 5c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.25.

BEST LONG GREEN.

The leading large variety. Fruit from ten to twelve inches long, dark green, crisp and tender. A good variety for slicing, and when ripe they are the best for sweet pickles. We offer the "Best Strain" that will grow long and uniform in shape.

Pkt., 5c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.50.

PEERLESS, or EARLY WHITE SPINE.

One of the best sorts for table use, fruiting early and abundantly. Fruit uniformly straight and handsome; light green, with a few white spines.

Pkt., 5c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.50.

JAPANESE CLIMBING.

The vines are of a healthy, vigorous growth, with a rich dark green foliage, and throw strong, grasping tendrils which enable it to climb trellis, wire netting, brush, or any other suitable support. It bears abundantly throughout the season, while the climbing habit enables the fruit to grow perfectly straight. From 12 to 16 inches in length. The cucumbers are thick, tender and of delicate flavor.

Pkt., 10c.; oz., 30c.; $\frac{1}{4}$ lb., 80c.; lb., \$2.50.

GHERKIN FOR PICKLING.

A very small oval, prickly variety, quite distinct from all others.

Pkt., 5c.; oz., 30c.; $\frac{1}{4}$ lb., 80c.

CUCUMBER SEED.

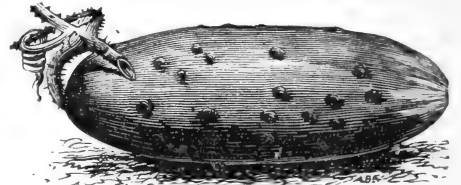
Very short crop this year. Beware of seed offered cheap, as it will be old seed. Our prices are as low as can be made for **NEW CROP.**



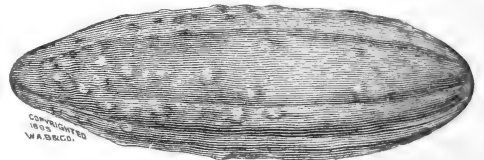
EARLY CLUSTER.



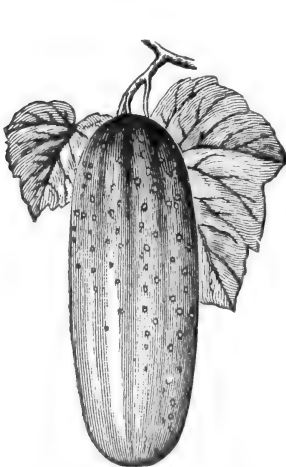
GHERKIN.



BOSTON PICKLING.



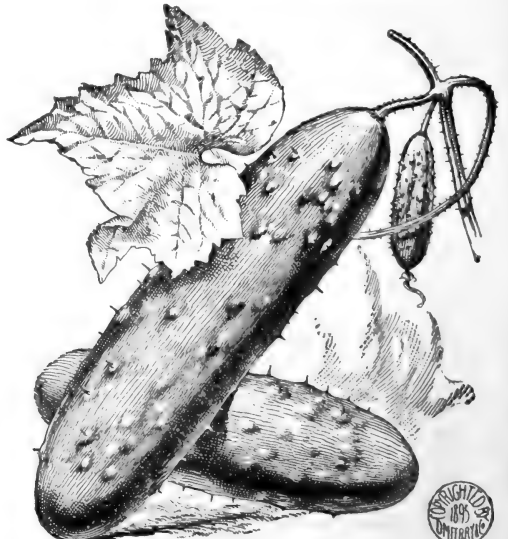
JAPANESE CLIMBING



EARLY SHORT GREEN OR
EARLY FRAME.



LONG GREEN.



PEERLESS OR WHITE SPINE.

WILD CUCUMBERS.—For Shade, see Flower Seeds.



ENDIVE.

This is a hardy vegetable, cultivated principally for a winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

GREEN CURLED.

Standard sort for fall and winter.

Pkt., 5c.; oz., 15c.; ¼ lb., 35c.

WHITE CURLED.

A beautiful variety, with curled, mossy leaves, for early use.

Pkt., 5c.; 1 oz., 15c.; ¼ lb., 40c.

BROAD LEAVED BATAVIAN. (Escarolle.)

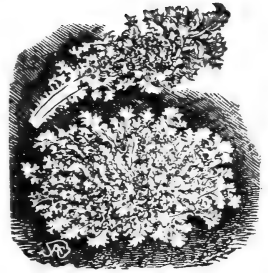
Has broad, thick leaves, which form a large, loose head.

Pkt., 5c.; 1 oz., 15c.; ¼ lb., 40c.

CHAMPION MOSS CURLED.

A compact growing, finely cut and much curled variety, of a bright green color. Owing to its fine color and density of foliage, it is much sought after.

Pkt., 5c.; oz., 15c.; ¼ lb., 40c. **WHITE CURLED ENDIVE.**



Egg Plant.

Should be started in a hot-bed and transplanted when the weather is settled and the ground thoroughly warm. They will thrive with the same treatment as that given the tomato.

EARLY LONG PURPLE.

The earliest and hardiest, very productive; fruit from 6 to 10 inches long.

Pkt., 5c.; 1 oz., 30c.; ¼ lb., 85c.

NEW YORK IMPROVED, LARGE PURPLE.

The leading market variety. Large, round, dark, excellent, and the most productive.

Pkt., 5c.; 1 oz., 35c.; ¼ lb., \$1.00.

BLACK PEKIN.

Oval round, of medium size, very dark, glossy and handsome.

Pkt., 5c.; 1 oz., 35c.; ¼ lb., \$1.00.

For PLANTS, see Vegetable Plants.

GARLIC. See Vegetable Plant List, page 66.



NEW YORK IMPROVED.

KALE OR BORECOLE.

Kale, or Borecole, is a kind of cabbage that does not form a close and solid head, but a cluster of beautifully curled or wrinkled leaves that are tender and of excellent flavor. It requires the same treatment as cabbage; is very hardy, being improved by frost.

DWARF GREEN CURLED SCOTCH.

Rarely exceeding 18 inches in height, but spreading out under good cultivation to three feet in diameter; leaves beautifully curled and bright green.

Pkt., 5c.; oz., 10c.; ¼ lb., 30c.

SIBERIAN.

(German Greens.) A variety extensively grown for winter greens. It is uniformly dwarf, green curled.

Pkt., 5c.; 1 oz., 10c.; ¼ lb., 30c.

TALL GREEN CURLED SCOTCH.

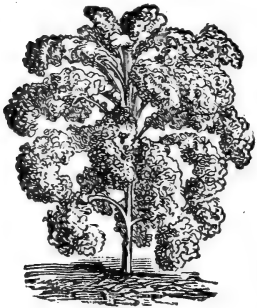
Grows about two feet high; leaves dark green, curled and wrinkled; very hardy, and is improved by a light frost.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.

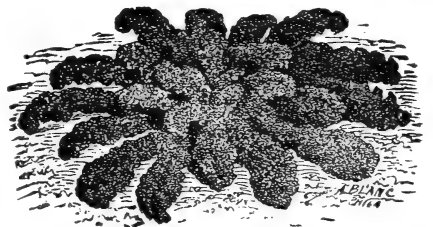
HALF DWARF MOSS CURLED.

An intermediate form, which seems to possess all the merits of both the tall and dwarf sorts. It forms a medium sized head of nicely curled leaves, which are kept well off the ground, but at the same time so compact as not to suffer from frost.

Pkt., 5c.; oz., 15c.; ¼ lb., 40c.



TALL SCOTCH.



DWARF CURLED KALE.

Kohl Rabi.

The Kohl Rabi is a vegetable intermediate between the cabbage and turnip, and combines the flavor of both. The edible part is a turnip-shaped bulb formed by the swelling of the stem. When used for the table this should be cut when quite small, as it is then very tender and delicate, but if allowed to reach its full size it becomes tough and stringy.

EARLY WHITE VIENNA.

Very early, small, handsome, white bulb. Best early variety for the table.

Pkt., 5c.; oz., 20c.; ¼ lb., 60c.

EARLY PURPLE VIENNA.

Nearly identical with the last, except in color, which is a bright purple, with the leaf stems tinged with purple.

Pkt., 5c.; oz., 25c.; ¼ lb., 75c.



KOHL RABI.

LEEK.

The Leek belongs to the onion family. Prized for soups. Cultivation similar to that of onions, but hill up about the neck to blanch it.

LARGE ROUEN, or AMERICAN FLAG.

A favorite large American market sort.

Pkt., 5c.; 1 oz., 15c.; ¼ lb., 40c.; 1 lb., \$1.25.

MONSTROUS CARENTON.

Rather larger than the Flag, but very tender and mild on account of its rapid growth.

Pkt., 5c.; 1 oz., 20c.; ¼ lb., 50c.; 1 lb., \$1.50.



LARGE ROUEN LEEK

LETTUCE.

FOR FREE PREMIUMS.
SEE INDEX.

CULTURE.

Lettuce will thrive in any good garden soil and requires so little care that all who have the ground at their disposal should raise enough for their own use, and especially as the quality depends almost entirely on its crisp freshness.

Early Prize Head.

SEED WHITE.

This old standard sort still stands at the head of the large, thin leaved, clustering sorts. The very large leaves are savoyed or crimped, bright green, tinged with red, and are exceedingly tender, crisp and sweet, forming a large, loose head. This variety is one of the very best for the garden, but is not a good sort to ship long distances.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

Philadelphia Butter, or Early Whitehead.

SEED WHITE.

Many prefer a large growing, thick leaved, smooth, rich flavored lettuce, and to meet this demand we present this sort. Plant dark green, with many nearly round, thick leaves, formed into a very solid, round head, which stands a long time without running to seed. Leaves very thick, folded or puckered at the base, the inner ones blanched to a rich yellow color, and exceedingly rich and nutty in flavor.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

Grand Rapids.

FORCING—SEED BLACK.

As a lettuce for greenhouse forcing this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot, and standing for some days after being fit to cut. The plant is upright and forms a loose head or cluster of large, light yellowish-green leaves, slightly crimped and blistered and a drather thin. It will stand shipping long distances better than most sorts.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.

Hanson.

SEED WHITE.

(Improved Hard-Heading Stock). We can recommend this as one of the very best. Heads green outside and white within; grows to a remarkable size, very solid, and is deliciously sweet, crisp and tender. It withstands the hot sun.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

Simpson's Early Curled.

WHITE SEED.

A leading market variety used for very early planting and forcing. Forms a dense mass of finely curled and wrinkled leaves that are excellent and tender, and do not wilt readily.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

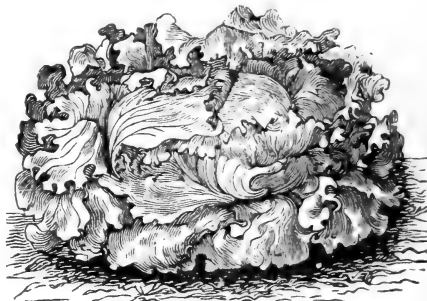
The Morse.

White seeded, new and one of the finest varieties for forcing in either cold-frame or hot-house. A trial will prove its merits.

Pkt., 5c.; 1 oz., 15c.; $\frac{1}{4}$ lb., 40c.; 1 lb., \$1.25.



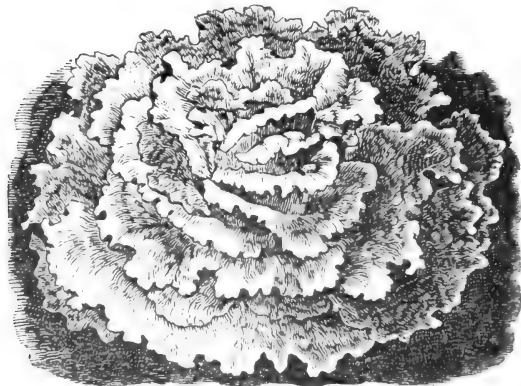
BIG BOSTON.



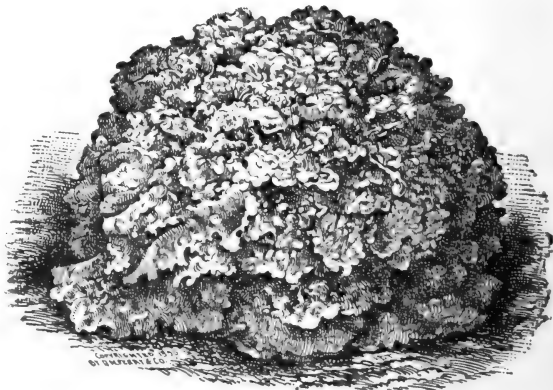
HANSON.



GRAND RAPIDS.



SIMPSON'S EARLY CURLED.



PRIZE HEAD.

Lettuce—Continued.

Early Tennis Ball.

BLACK SEEDED.

The plant is small, of rapid growth, and should be used as soon as large enough, as it quickly runs to seed. Leaves dark green, thick and crisp. One of the best for growing under cover, and for forcing.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

ALL SEASONS.

A magnificent new variety, forming solid heads of enormous size, almost as large as a Flat Dutch Cabbage, very tender. It is slow to seed, and is one of the very best all-head sorts ever introduced. Exceedingly profitable for market gardens.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; 1 lb., \$1.00.



PARIS WHITE COS.



EARLY CURLED SIMPSON.

DEACON.

SEED WHITE.

While this does not make as large a head as some others, the heads formed are very solid and of excellent flavor, and remain in condition for use as long as any variety in cultivation. Plant medium sized, with very few outer leaves, which are deep green and very thick, while the inner ones blanch to a bright yellow and are exceedingly well flavored, crisp and tender. This is certainly one of the best varieties for summer use.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.

BLACK SEEDED SIMPSON.

SEED BLACK.

Forms a close, compact mass of curly leaves of a yellowish green.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

TILTON'S WHITE STAR.

Forms a large, loose head, of excellent quality, which blanches well. The leaves are broader, thicker and darker than the Black Seeded Simpson, and it grows larger and more rapidly.

Pkt., 5c.; 1 oz., 15c.; $\frac{1}{4}$ lb., 40c.; 1 lb., \$1.25.

BROWN DUTCH.

Forms a large, solid head, sweet, tender, and of good flavor. Outer leaves tinged with brown. Very hardy.

Pkt., 5c.; 1 oz., 15c.; $\frac{1}{4}$ lb., 30c.; 1 lb., \$1.00.

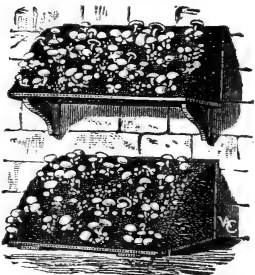
WHITE PARIS COS.

A distinct variety, forming oblong, upright heads, largest near the top. It is hard, tender and crisp, and does not run to seed so quickly as other Cos varieties.

Pkt., 5c.; 1 oz., 15c.; $\frac{1}{4}$ lb., 35c.; 1 lb., \$1.00.

Mushroom Spawn.

With intelligent care and good spawn, Mushrooms may be made to pay handsomely. They can be successfully grown in a dry cellar, under the benches of a green house, or in sheds, where the temperature can be kept from 50 to 60 degrees through the winter.



MUSHROOMS.

FRENCH.

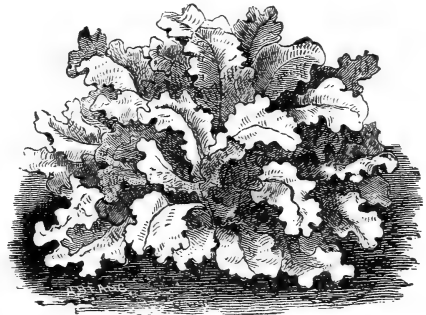
Mushrooms obtained from this spawn are very highly esteemed. In 3-lb. boxes, per box, \$1.50.

ENGLISH.

In bricks, 30c per lb., postpaid; by express, 20c per lb.

Mustard.

Used alone as "greens," or with cress as salad. Sow any time in the spring, in rows, and thin out as necessary.



GIANT CURLED MUSTARD.

SOUTHERN GIANT CURLED.

We offer a fine strain of the true curled-leaf variety of the South for planting in the fall, to furnish an early spring salad.

Pkt., 5c.; 1 oz., 10c.; $\frac{1}{4}$ lb., 25c.; 1 lb., 75c.

WHITE ENGLISH.

Leaves mild, tender when young, and generally preferred for salad.

Pkt., 5c.; 1 oz., 10c.; $\frac{1}{4}$ lb., 15c.; 1 lb., 35c.

If you want to be successful growing Mushrooms, read the book on "Mushrooms and How to Grow Them," by Wm. Falconer. Per copy, \$1.00, post-paid. See Book List.

Musk Melons.

CULTURE.—Cultivate as recommended for cucumbers, except that the hills should be six feet apart. Rich earth for the young plants is far better than manure, but if the latter is to be used, see that it is well rotted.

Maules Superior. (GREEN FLESH.)

This excellent early muskmelon ripens about the same time as Jenny Lind, but is rather larger than that famous variety. The vine is a wonderfully strong and vigorous grower. The quality of the melon is unsurpassed, and it is a perfect shipper. The fruit is so attractive in appearance as to command a higher price in the market than other early sorts.

Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

Small Green Nutmeg.

A variety resembling the Jenny Lind, and ripening nearly as early. The flesh is green, fine and very sweet. Superior for the early market, or family garden, and a favorite for hotels and restaurants.

Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

Paul Rose, or Petoskey.

Something new; created by a cross between the Netted Gem and Osage; fruit oval, about five inches in diameter, rich orange in color, sweet and highly flavored.

Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

OSAGE, or Miller's Cream.

The finest flavored melon in cultivation, and the best melon grown for the market gardener, the trucker, the farmer or for the small planter. Without question the sweetest of all melons. The flesh is of a rich salmon color, very sweet and melting in quality.

Pkt., 5c.; 1 oz., 15c.; ¼ lb., 45c.; 1 lb., \$1.25.

Well Known and Popular Varieties.

	Pkt.	Oz.	¼ lb.	lb.
Jenny Lind. —Extra early, flesh green, fine flavor.....	5c.	15c.	40c.	\$1.25
Extra Early Hackensack. —Flesh green, delicious, juicy and sweet, medium size.....	5c.	15c.	40c.	\$1.25
Early Baltimore or Acme. —Early, oblong, pointed, flesh light green, sweet.....	5c.	15c.	40c.	\$1.25
Large Yellow Cantaloupe. —Early and productive, flesh salmon color, rich, sweet.....	5c.	20c.	50c.	\$1.40
Emerald Gem. —Medium size, early, flesh yellow, rich, sweet.....	5c.	20c.	50c.	\$1.50
Large Green Nutmeg. —Good size, thick, green flesh of fine flavor and quality.....	5c.	20c.	50c.	\$1.50
Cosmopolitan. —New, medium size, flesh green very rich.....	5c.	15c.	40c.	\$1.25
Montreal Nutmeg. —Medium early; flesh thick, firm and excellent.....	5c.	20c.	50c.	\$1.50
Casaba. —Large, flesh green, sweet and delicious.....	5c.	20c.	50c.	\$1.50
Orange Christiana. —A distinct variety, early; flesh deep yellow, highly flavored.....	5c.	15c.	40c.	\$1.25

SHORT CROP.

Melon and all Vine Seeds were almost a total failure the past season; therefore prices have advanced considerable. Beware of cheap Vine Seeds this season. Our price is as low as can be made for **NEW CROP SEED.**



SMALL GREEN NUTMEG



NETTED GEM OR ROCKY FORD

ROCKY FORD or NETTED GEM.

The most popular and best seller among Musk Melons.

The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and highly flavored. The fruit is wonderfully uniform in shape and quality.

Grown largely in Colorado and shipped in carload lots all over the country. The favorite with market gardeners everywhere.

Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

Watermelons.

CULTURE.—The watermelon, in its origins and habits, is similar to the muskmelon, and should receive the same cultivation and treatment, except that the hills should be further apart.

Fordhook Early.

A FINE, EXTRA EARLY MELON.

Fruit of good size, skin dark green, flesh bright and crisp, sweet and good quality. Rind thin but tough. Good shipper.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 80c.

COLE'S EARLY.

The finest early, medium size, round and striped skin. It matures in every state; very hardy; flesh of deep red, sweet and delicate in flavor.

Pkt., 5c.; 1 oz., 15c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

PHINNEY'S EARLY.

A valuable variety for use in the North; hardy and a sure cropper. Vines vigorous and productive, fruiting quite early. Fruit medium sized, oblong, smooth, marbled with two shades of green; rind thin; flesh pink, very sweet, tender and crisp.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., 85c.

CUBAN QUEEN.

A very fine variety, growing to a great size; flesh bright red, solid and sweet. The skin is beautifully striped dark and light green. Melons are wonderfully solid, rind thin. They are enormously productive and ripen early.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

ICE CREAM, or PEERLESS.

A grand favorite and standard variety. Superior in every respect. Has beautiful crimson core, which is always fine grained and cannot be surpassed in flavor. Very prolific, magnificent grower. It is one of the best for market and home purposes.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Monte Cristo.

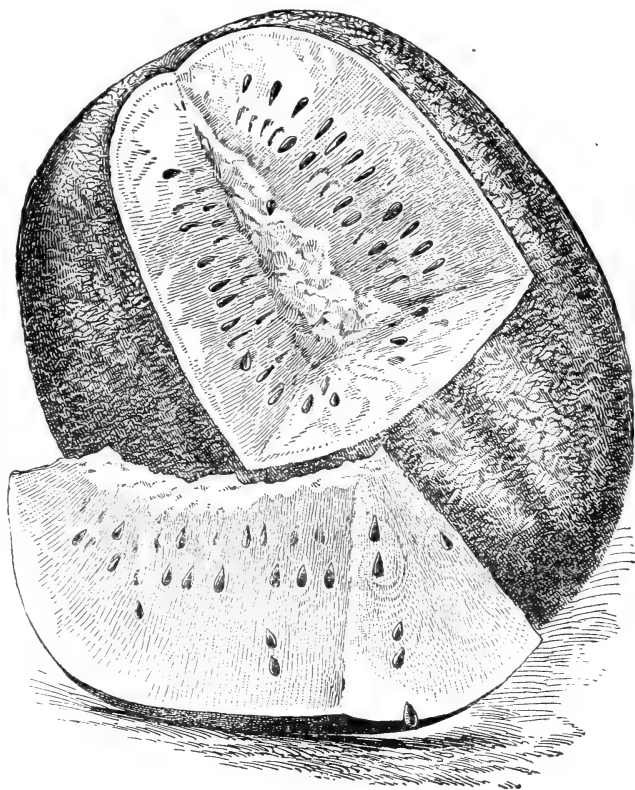
A splendid sort for home use or near markets. Vine vigorous and productive; fruit of medium size; oval; color dark, mottled green in two shades, forming indistinct stripes. Flesh very bright, rich red, exceedingly sweet and tender.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 30c.; lb., 90c.

FERRY'S ICEBERG.

A handsome new melon; has a very hard, firm rind, making it a good shipper. Flesh rich, tender and sweet. Pronounced by some to be the best dark colored shipping melon yet produced.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.



SWEET HEART.

Sweet Heart.

A HANDSOME AND PROFITABLE MELON.

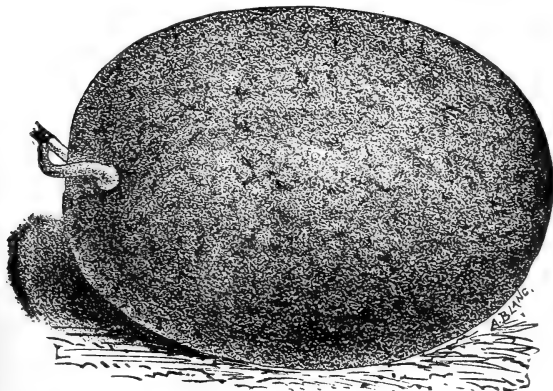
This melon has become very popular as a shipping melon. Vine vigorous and productive, ripening its fruit early. Fruit large, oval, very heavy, uniformly mottled light and very light green. Rind thin but firm. Flesh bright red, firm solid, but very tender, melting and sweet. Fruit retains its good quality for a long time after ripening. Our stock is the very best.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 70c.

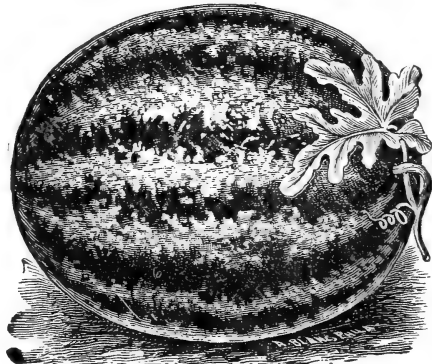
PRIDE OF GEORGIA.

Perfectly round watermelons, with light and dark green markings, of fair size. The flesh is bright red and particularly sweet, crisp and delicious. This melon is grown largely in the South.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 80c.



FORDHOOK EARLY.



COLE'S EARLY.

Watermelons—Continued.

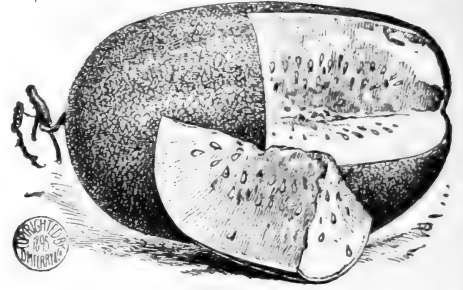
OUR SEEDS

Not only grow, but produce fruits of superior quality.

DIXIE.

This is a new melon of excellent quality. Flesh red and tender, ripening evenly and all good; size medium to large; skin dark green, beautifully mottled and very attractive. A heavy cropper and fine for shipping or home use.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 70c.



DIXIE.

Well Known and Standard Varieties.

	Pkt.	Oz.	¼ lb.	lb.
Dark Icing. —Early, round, solid, with thin, dark green skin; of superb quality.	5c.	10c.	25c.	75c.
Black Spanish. —Round, dark green melons; flesh of fine quality.	5c.	10c.	20c.	70c.
Gray Monarch, or Long White Icing. —Very large; long; crimson flesh.	5c.	10c.	25c.	60c.
Florida Favorite. —Large and long; rind firm; flesh deep red	5c.	10c.	25c.	75c.
Kentucky Wonder. —Oblong; flesh scarlet, crisp, tender, rich.	5c.	10c.	25c.	75c.
Hungarian Honey. —Very early; fine for Northern latitudes	5c.	10c.	25c.	80c.
Kolb's Gem. —Almost round; flesh sweet; rind dark; good shipper	5c.	10c.	20c.	60c.
Mountain Sweet. —An old reliable sort; flesh red; of extra fine quality.	5c.	10c.	20c.	65c.
Gypsy, or Georgia Rattlesnake. —Oblong, dark and striped; bright red flesh.	5c.	10c.	25c.	75c.
Citron. —(Red or Green Seeded). Round and handsome; for preserving only.	5c.	10c.	25c.	75c.

Nasturtium.

TALL MIXED.

Useful and ornamental; flowers of various colors. The green seed-pods are pickled in vinegar. The flowers are used for garnishing.

Pkt., 5c.; 1 oz., 15c.; ¼ lb., 30c.

For other varieties see Flower List.

Okra or Gumbo.

IMPROVED DWARF GREEN.

Very early, with long green slender pods.

Pkt., 5c.; 1 oz., 10c.; ¼ lb., 20c.; 1 lb., 60c.

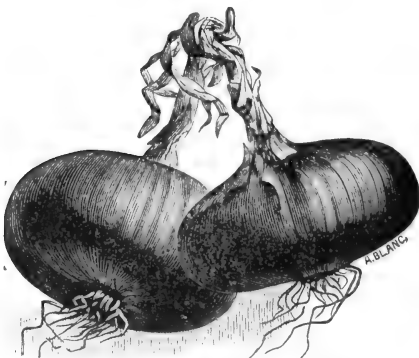
WHITE VELVET.

The pods are smooth or very slightly ribbed, large, remain tender a long time.

Pkt., 5c.; 1 oz., 15c.; ¼ lb., 25c.; 1 lb., 65c.

ONIONS.

Market Gardeners and those who buy Onion Seed in large quantities should write us for special prices.



EXTRA EARLY RED FLAT.

ALL SEED CAREFULLY TESTED BEFORE LEAVING OUR STORE.

CULTURE.—The onion thrives best in a rather deep, rich, loamy soil, and unlike most vegetables, succeeds well when cultivated on the same ground for successive years. The best culture requires that the ground should be deeply dug and heavily manured with well rotted manure the season or two previous. Sow as soon as the ground can be prepared in the spring.

Extra Early Red-Flat.

THE FIRST RED ONION TO RIPEN.

A medium sized flat variety; an abundant producer and very uniform in shape and size; moderately strong flavored, and comes into use nearly two weeks earlier than the Large Red Wethersfield. Very desirable for early market use.

Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.40.

EARLY LARGE RED GLOBE.

A large, early, rapid growing kind. Skin deep purplish red; flesh white, mild, and unusually sweet. Best for early use, as it does not keep long.

Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

YELLOW DUTCH, or STRASBURG.

One of the old varieties. Flat; flesh white, fine grained, mild and well flavored.

Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

ONIONS—Continued.

**THE BEST
THAT GROW.**

We pride ourselves in selling the very best Onion Seed that can be produced. Try it.

**Oregon
Yellow Danvers.**

This is the variety planted almost entirely in the Northwest, particularly in Oregon.

The largest crops of onions and the best keepers, bringing the highest prices in the Oregon and California markets, are the **Oregon Yellow Danvers**. The bulbs are uniformly large, of a half globe in shape, with small necks.

It is the earliest, largest in size, most perfect in shape, the largest cropper and the best keeper, and as a market or table onion cannot be excelled.

Our seed is grown specially for us by the best onion seed growers in Oregon. No onion grower can afford to plant anything inferior when such seed can be obtained.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.60.

YELLOW DANVERS.

The old standard variety.

Pkt., 5c.; 1 oz., 20c.; $\frac{1}{4}$ lb., 50c.; 1 lb., \$1.40.

AUSTRALIAN BROWN.

Since its introduction, a few years ago, it has become one of the most popular and most sought after onions in many markets. Its remarkable keeping qualities and handsome appearance has brought it rapidly to the front. This onion resembles the Oregon Yellow Danvers in general appearance, but has a clear, amber-brown skin that attracts buyers. It matures early, ripens uniformly, and will keep in good condition longer than any other onion. We offer the true, genuine seed, Oregon grown.

Pkt., 5c.; 1 oz., 15c.; $\frac{1}{4}$ lb., 40c.; 1 lb., \$1.25.

LARGE RED WETHERSFIELD.

A standard variety, one of the most productive kinds, even on poor soil. Its good keeping qualities renders it one of the best for shipping.

Pkt., 5c.; oz., 25c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.

YELLOW GLOBE DANVERS.

A very handsome, round or globe shaped variety, of large size, with thin, yellowish skin, white flesh, fine grained, mild, very firm, and the best of keepers. It ripens early and sells readily at the highest prices.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.40.

QUEEN.

White, handsome, and a good keeper. If sown thick, produces small, very firm bulbs. The best of all for pickling; if given more room, matures an excellent onion that will keep all winter.

Pkt., 5c.; 1 oz., 25c.; 2 oz., 40c.; $\frac{1}{4}$ lb., 75c.; 1 lb., \$2.25.

WHITE PORTUGAL, or SILVER SKIN.

A good variety for family use; skin and flesh pure white; mild flavor and flat shape. The best white onion; also grown largely for sets.

Pkt., 5c.; 1 oz., 25c.; $\frac{1}{4}$ lb., 75c.; 1 lb., \$2.25.

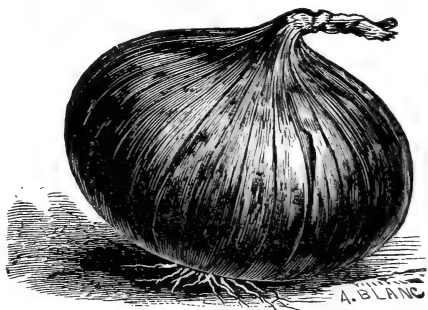
EXTRA EARLY BARLETTA.

A small onion of a pure paper-white color; very mild and delicate in flavor. Valuable for table use and for pickling.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; 1 lb., \$2.25



WETHERSFIELD.



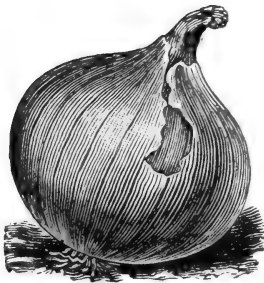
AUSTRALIAN BROWN.



SMALL QUEEN.

A good Seeder is one of the most important farm and garden tools. It "pays at both ends;" saves labor and seed in planting, it saves work and trouble in hoeing. It also makes a more even and therefore larger crop. Planet Jr.'s are the best. See pages 70, 71 and 72.

ONIONS—Continued.



PRIZETAKER.

Prizetaker—The Genuine.

The handsomest, largest yellow globe Onion. A new variety introduced but a few years ago which has proved to be an excellent keeper, of fine flavor, handsome shape and enormous size. A perfect globe shape, with a bright straw colored skin; the necks are very small and the onions always ripen up hard.

Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$1.50

MAMMOTH SILVER KING.

An immense white onion, mild flavor. Very showy and attractive in appearance.

Pkt., 5c.; 1 oz., 20c.; ¼ lb., 60c.; 1 lb., \$2.00

WHITE GLOBE.

A handsome globe shaped variety; a good keeper.

Pkt., 5c.; 1 oz., 25c.; ¼ lb., 75c.; 1 lb., \$2.25

GIANT ROCCA.

Light red, of immense size.

Pkt., 5c.; 1 oz., 20c.; ¼ lb., 60c.; 1 lb., \$1.75

Onion Sets.

BOTTOM ONION SETS.

Are grown from seed that has been sown too thick to attain a large size. The small onions thus obtained are planted out, and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand they make ripe onions of the best quality, and come to maturity some six weeks earlier than a crop grown direct from the seed. Yellow sets are most in demand, but Red and White are used to some extent. Sow forty to sixty pounds of black seed to the acre to raise sets.

Per pound, 25c.

TOP SETS.

Produced in clusters. Lb., 25c.

MULTIPLIERS.

Grown for the tops. Lb., 30c.

SHALLOTS.

Valuable for bunching or for an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium size bulbs. Light brown skin; mild, white flesh. It is the earliest, most vigorous in growth, and easiest to cultivate of all onions from sets.

Lb., 30c.

These prices are by mail, post-paid. Deduct 10c lb. if ordering by freight.

PARSNIP.

The Parsnip is nutritious and wholesome, with a sugary sweetness peculiar to itself, and is superior both for the table and for stock feeding. It yields a large crop, and is said to be more valuable for dairy cows than either the carrot or turnip. As the seed germinates very slowly, sow as early in spring as possible in drills fifteen inches apart, on deeply cultivated, rich, loamy soil. Keep clear of weeds, and thin to three or four inches apart. The roots are improved by freezing.

LONG WHITE DUTCH, or SUGAR.

Root very long, white, smooth, tender, sugary, and of most excellent flavor. Very hardy and will keep through winter without protection.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

HOLLOW CROWN, or GUERNSEY.

Root white, very tender, with a smooth, clear skin. The variety is easily distinguished by the leaves growing from a depression on the top or crown of the root.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Pomegranate.

A very handsome deciduous shrub, producing scarlet flowers and fruit that is highly esteemed by many.

Pkt., 5c.; oz., 25c.; ¼ lb., 75c.

POTATOES.

Don't fail to look over our list of Seed Potatoes. It contains varieties of extraordinary value. See page 55.



HOLLOW CROWN.

Parsley.

Very useful for flavoring soups, meats, and for garnishing. The green leaves are used for flavoring, or they may be dried crisp, rubbed to a powder, and kept in bottles until needed.

FINE TRIPLE-CURLED, or MYATT'S GARNISHING.

A fine, free growing, but not large variety. The plants bear a great number of leaves, which are so abundant and so finely curled that they resemble a bunch of moss.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

CHAMPION MOSS CURLED.

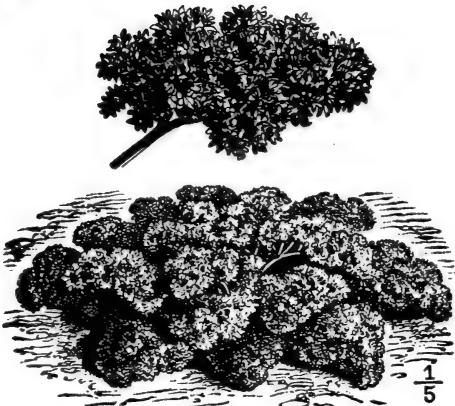
A compact growing, finely cut and much curled variety of a bright green color.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

TURNIP-ROOTED, or HAMBURG.

The root, which resembles a small turnip, is the edible portion of this variety. Extensively grown and used for flavoring soups, etc.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.



TRIPLE CURLED PARSLEY.

SELECT GARDEN PEAS.

We pay postage on Peas only in 10c packets. If ordering by mail in larger quantities, add 10c per pound for postage.

ALASKA

—OR—

EARLIEST OF ALL.

Earliest and best of all the blue, smooth varieties. A smooth, blue pea, which in evenness of growth of vine and early maturity of the pods is unequaled by any other extra early pea. Vines 2 to 2½ feet high, unbranched, bearing 4 to 7 long pods, which are filled with medium sized, bright green peas of excellent flavor. A great favorite with our market gardeners for fall and early spring planting.

Pkt., 10c.; lb., 15c.

FIRST AND BEST.

Unsurpassed for early and even ripening. One of the best for market gardeners, as the whole crop ripens within a few days, so that the ground may be cleared and another crop planted. About forty-five days is the average from planting until the whole crop is ready for market.

Pkt., 10c.; lb., 15c.

TOM THUMB, or BLUE PETER.

Grows about 9 inches high; extremely early; pods good length and well filled. The ripe peas are blue, smooth, round, fair size.

Pkt., 10c.; lb., 15c.

PREMIUM GEM.

One of the earliest dwarf green wrinkled varieties. Similar to Little Gem.

Pkt., 10c.; 1 lb., 15c.



EARLIEST OF ALL, or ALASKA.

PEAS—Continued.

If ordering by mail add 10c per pound for postage.

American Wonder.

The earliest and best of the wrinkled sorts. A great favorite for family use. Has stout, branching vines, about nine inches high, and covered with well filled pods containing seven or eight large, exceedingly sweet, tender and well flavored peas. Dry peas, medium size, much wrinkled and flattened, pale green.

Pkt., 10c.; lb., 20c.

McLEAN'S LITTLE GEM.

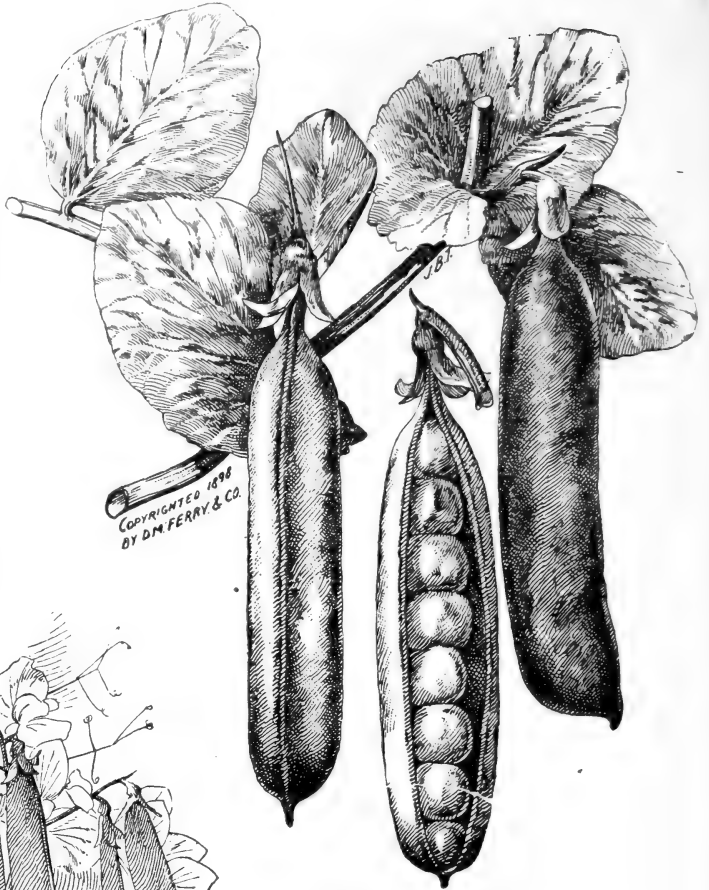
A sweet, wrinkled pea, coming in a little later than the American Wonder; grows taller and continues in bearing longer. The quality of the pea is very superior. Height, 15 inches.

Pkt., 10c.; lb., 20c.

McLEAN'S ADVANCER.

A green, wrinkled sort, bearing fine, broad pods. Comes in next after the Gem. Popular market kind, and used extensively by canners. Height, two and a half feet.

Pkt., 10c.; lb., 15c.



NOTT'S EXCELSIOR.

Nott's Excelsior.

THE BEST DWARF PEAS

In cultivation. Height 15 inches. As hardy as the earliest market sorts, but in quality equal to the Little Gem. It outyields that variety 20 to 30 per cent. The pods are one-third longer, and each pod contains from 6 to 9 large peas, which are usually fine flavored and tender.

Pkt., 10c.; lb., 20c.

Gradus.

The finest Extra Early Pea yet introduced.

This valuable creation fills a place not heretofore occupied by any kind of peas. The vine of this most distinct sort is like the First and Best, except that it grows a little taller and matures its pods a little later. The immense pods are almost as large as those of the Telephone, uniformly well shaped and handsome. They ripen slowly and continue fit for use much longer than most varieties, making this by far the most desirable sort for the home garden. The peas are very large, of splendid quality and beautiful color, which they retain after cooking.

Pkt., 10c.; lb., 20c.

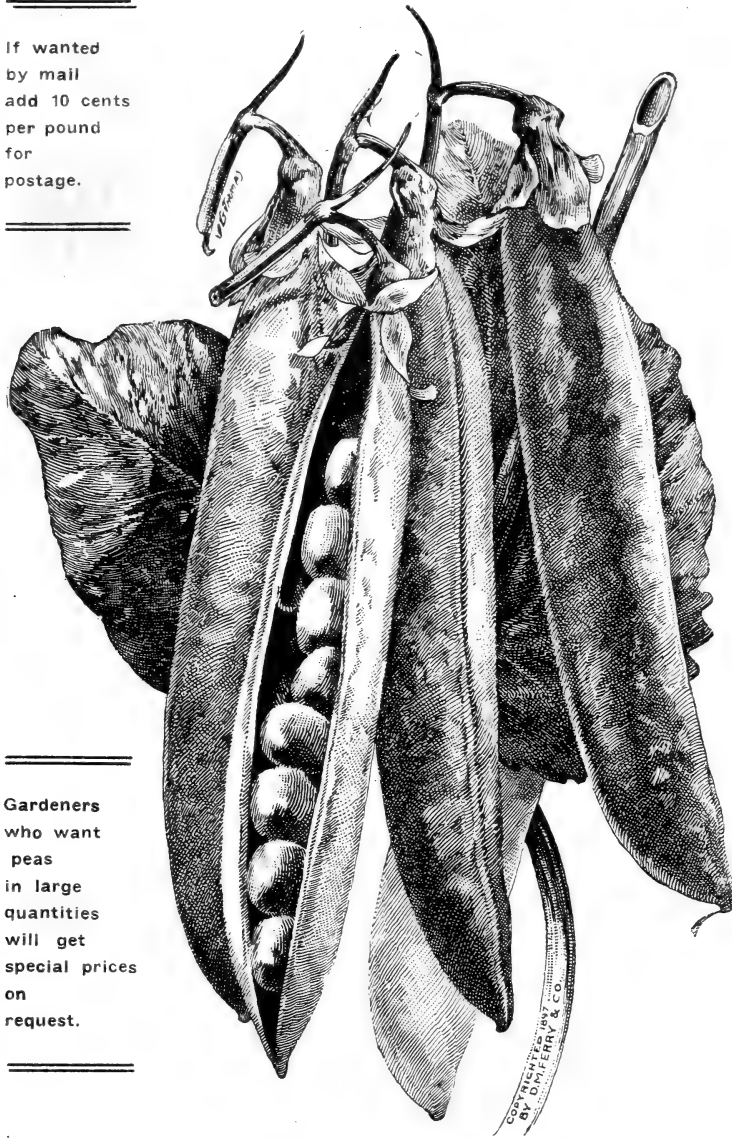


GRADUS, showing Vine and full-sized Pod.

If you are offered peas at low prices this year you may safely conclude that they are of inferior quality.

PEAS—Continued.

If wanted
by mail
add 10 cents
per pound
for
postage.



TELEPHONE, TRUE STOCK.

Gardeners
who want
peas
in large
quantities
will get
special prices
on
request.

Improved Strategem.

One of the best of the large podded peas; the pods are of immense size, filled with large, dark green wrinkled peas of the finest quality; vine medium height, but very stocky, with very broad, light green leaves, and bearing an abundance of large, handsome

Pkt., 10c.; lb., 15c.

BLISS' EVERBEARING.

Height about two feet; pods long, peas very large; unsurpassed in sweetness and flavor.

Pkt., 10c.; lb., 15c.

CHAMPION OF ENGLAND.

Very rich and fine flavored; very productive; wrinkled; height, 4 to 5 feet.

Pkt., 10c.; lb., 15c.

Veitche's Perfection.

This superb wrinkled pea is one of the great leaders. There is probably no better late variety now under general cultivation. It attains a height of about 2½ feet, and is esteemed for good quality and productiveness. The pods are long, handsome and wonderfully well filled, and are produced in great abundance. The peas are of unusually large size and delicious flavor; eight to ten to the pod. Cannot be overpraised as a standard medium or late sort for the table, for canning or for market purposes.

Pkt., 10c.; lb., 15c.

Be up to Date.

Buy a Planet Jr. Combined Drill and Wheel-Hoe. It will then be a pleasure to

Work in the Garden.

See page 70.

Telephone.

Produces those handsome, long pods. A great favorite with our market gardeners.

Immensely productive, of the finest quality and excellent, sugary flavor; vines very strong; the pods are of large size, filled with large, delicious peas; height, 4 feet.

Pkt., 10c.; lb., 15c.

Yorkshire Hero.

One of the largest sweet wrinkled kinds; vines strong and spreading; pods of good size and well filled; much in use, and has enjoyed a long popularity; medium late; bears a long time; height, two and a half feet.

Pkt., 10c.; lb., 15c.

BLACK-EYED MARROWFAT.

A good Marrowfat pea; yields heavy; height, three feet.

Pkt., 10c.; 1 lb., 10c.

Melting Sugar.

The kind that have sweet little pods, and are used the same way as snap or string beans.

This is the most popular of the edible podded kinds. The pods are large, straight, very tender and finely flavored. Vines medium height.

Pkt., 10c.; lb., 25c.

GIANT SUGAR (Gray Seeded).

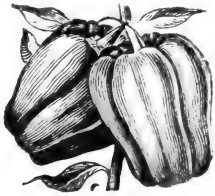
Taller and larger than the above kind.

Pkt., 10c.; lb., 25c.

For FIELD PEAS, see page 53.

PEPPER.

Sow the seeds early in hotbeds; or later, when the weather becomes warm, in open beds. When two or three inches high transplant to a warm, mellow soil, in rows, eighteen inches apart and a foot apart in the row. Guano and hen manure are excellent fertilizers, and will greatly increase the yield.



GOLDEN DAWN

GOLDEN DAWN.

Bright golden yellow. Very productive. Entirely free from fiery flavor. Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.

SWEET SPANISH, or MOUNTAIN.

Similar to the Large Bell, but usually larger. Excellent for pickling and stuffing.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.

For Pepper Plants, see page 66.



RUBY KING.

RUBY KING.

An improved American sort, reaching the largest size, yet retaining the symmetrical shape of the smaller kinds. It is very bright colored, beautiful, sweet and mild flavored. Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.

LARGE BELL, or BULL NOSE.

A large, mild, thick fleshed variety. One of the best for stuffed pickles. Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.



CAYENNE.

CAYENNE.

Brilliant coral red pods, three or four inches long, and a prolific bearer. Very pungent and used very largely with pickles when green.

Pkt., 5c.; oz., 20c.; 1/4 lb., 75c.

CHILI.

Produces small pointed pods, that are a brilliant scarlet, and very pungent when ripe. Used largely in the manufacture of pepper sauce.

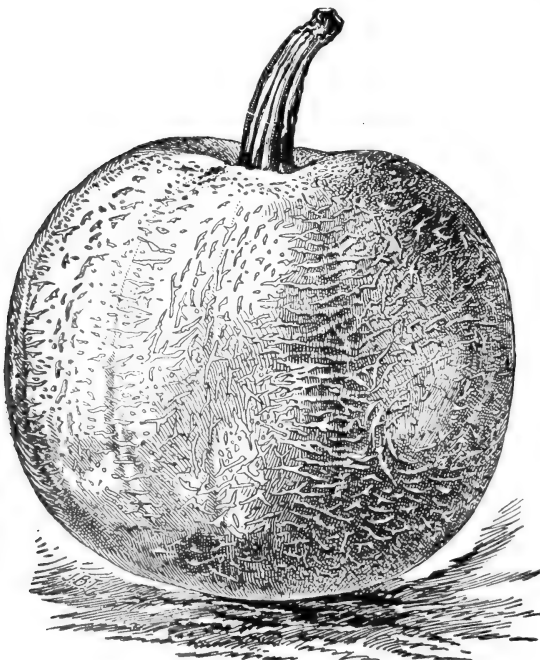
Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.

Pumpkins.

Winter Luxury. (New Pie.)

Flesh thick, sweet and finely flavored. Makes very delicious pies. Cooks in a remarkably short time; is enormously productive; grows uniformly to a diameter of ten to twelve inches; beautiful golden yellow color; very finely and closely netted. As a winter keeper and cooking variety it stands unequalled.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.



WINTER LUXURY.

CULTURE.—Care should be taken to keep the different varieties apart, and also to keep them well separated from other vining plants, as they readily amalgamate and deteriorate.

JONATHAN.

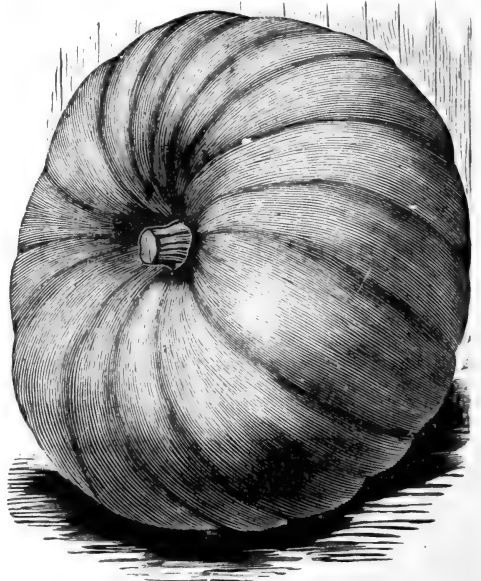
A large, bottle-shaped variety, with a crook neck, of most attractive appearance. It is very prolific and the flesh is fine, clear and sweet, making it valuable for pies and other table uses. Its hard shell makes it an excellent keeper.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 80c.

LARGE SWEET CHEESE.

A most popular variety. Fruit flattened, as shown in cut below; skin mottled light green and yellow, changing to rich cream color as it matures. Flesh yellow thick, tender; very nutritious and of excellent quality. A most productive variety.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.



LARGE SWEET CHEESE.

Pumpkins—Continued.

MAMMOTH TOURS.

A productive French variety which grows to an enormous size. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; 1 lb., \$1.00.

TENNESSEE SWEET POTATO.

Pear-shaped; flesh thick, cream white, fine grained, and of excellent flavor.

Pkt., 5c.; 1 oz., 10c.; $\frac{1}{4}$ lb., 25c.; 1 lb., 75c.

LARGE YELLOW, or CONNECTICUT FIELD.

A large round variety, sometimes depressed at the ends; rind of a deep, glossy yellow. Vines vigorous and very productive. If protected, will keep well till midwinter.

Pkt., 5c.; 1 oz., 10c.; 2 oz., 15c.; $\frac{1}{4}$ lb., 20c.; lb., 40c.

Giant of All.

A new imported variety and a giant among the Mammoths.

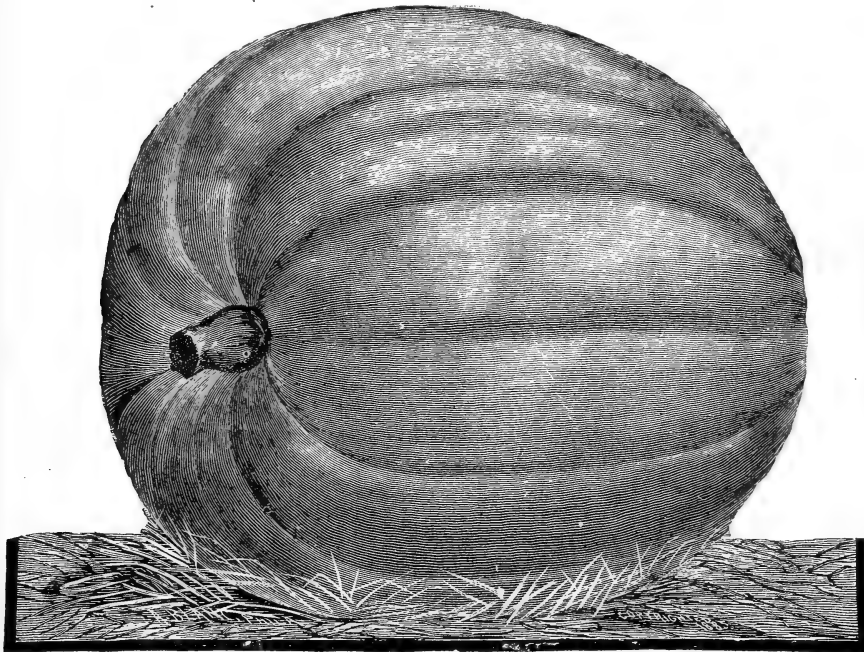
This colossal Pumpkin is almost a globe in shape. The skin is of a beautiful, rich, golden yellow; flesh firm, fine grained and deep yellow, sweet flavored, very thick and of excellent quality for so mammoth a variety.

The Pumpkins attain an enormous size and will carry away the prizes at your County Fairs.

We want every customer to get a Pkt. and compete for our CASH PRIZES. See offer.

NOTE.—To raise the largest Pumpkins, the vines should have ample room, and only the best fruit allowed to remain on the vine.

Supply of Seed limited. Per pkt., 15c.; 2 pkts., 25c.



GIANT OF ALL.

\$10.00 CASH PRIZES!

As follows, to the person bringing us, before November 10, 1903, the **LARGEST PUMPKIN**, grown from our **GIANT OF ALL** seed:—

	EACH
For largest,	\$3.00
Next 2 "	2.00
Next 3 "	1.00

All pumpkins to be delivered, charges paid, to our store. Prizes to be awarded November 15th.

\$10.00

RHUBARB, or Pie Plant.

CULTURE.—Rhubarb succeeds best in deep, rich, somewhat retentive soil. The richer its condition and the deeper it is stirred the better. Sow in drills an inch deep, and thin out the plants to six inches apart. In the fall transplant the young plants into very highly manured and deeply stirred soil, setting them four to six feet apart each way, and give a dressing of coarse manure each spring. The stalks should not be plucked until the second year, and the plant never allowed to exhaust itself by running to seed.

LINAEUS.

The earliest.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 45c.; 1 lb., \$1.50.

VICTORIA, or MAMMOTH.

Very large; finest cooking variety.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 45c.; 1 lb., \$1.50.

For Rhubarb Roots, see Vegetable Plants and Roots,



RHUBARB.

Potatoes

Get a new start this year by buying some of our select seed. See page 55.

RADISH.

CULTURE.—They should be sown for early use as soon as the ground can be well prepared, and for succession, at intervals of two or three weeks throughout the season, in rich, loose, warm soil, as the quality depends largely on its rapid growth.

EARLY LONG SCARLET, SHORT TOP.

The best Long Scarlet Radish for home use. This bright scarlet, small topped sort is uniformly straight, smooth, brittle and crisp, and is a standard and excellent sort for private gardens or market use. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

LONG, BRIGHTEST SCARLET, WHITE TIPPED.

This is the brightest and handsomest colored Scarlet Radish known. The lower one-third of the root is snow-white; very attractive. It is extra early and the flesh is very tender. Valuable for forcing or open ground.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 65c.

EARLY SCARLET TURNIP ROOTED.

The best for the family garden. A small, round, red turnip-shaped Radish, with small top and of very quick growth; very early; rich color, and crisp, tender flesh. Desirable for forcing or early outdoor planting.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

LADY FINGER, or WHITE VIENNA.

Of rapid growth and beautiful shape. Skin and flesh snow white; very juicy, firm, crisp and tender; the finest of Long White Radishes.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 70c.

IMPROVED CHARTIER.

Roots long, tapering rather abruptly and attaining a very large size. Of rapid growth; remains crisp and tender till fully grown. Color, scarlet above, shading into white at the tip. Flesh white and mild flavored.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

FRENCH BREAKFAST, or HALF LONG.

Medium size, of quick growth, crisp and tender; lower end and taproot white.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

WHITE STRASBURG.

One of the best of the large summer sorts. It covers a long season, as it is good when quite small. The roots are long, very white, crisp and tender.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 70c.

EARLY WHITE GIANT STUTTGART.

Root large, often four inches in diameter, top-shaped. Skin white; flesh white and crisp, and not becoming strong or pithy until very late.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

HALF-LONG, DEEP SCARLET.

A handsome variety, resembling somewhat the Olive-shaped, but of a deeper scarlet. Good for forcing.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; 1 lb., 60c.

EARLY WHITE TURNIP.

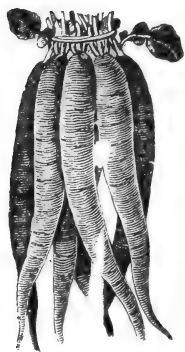
Similar to Scarlet Turnip, except in color. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

EARLY SCARLET TURNIP.

WHITE TIPPED.

A beautiful variety, deep scarlet with white tip, and is becoming very popular as a market sort. Very early. Has a small top and may be planted close. It is very attractive in appearance. Flesh crisp, tender and sweet. Cannot fail to give satisfaction as a forcing Radish.

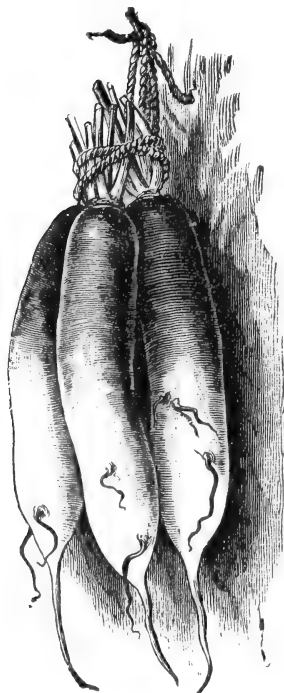
Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.



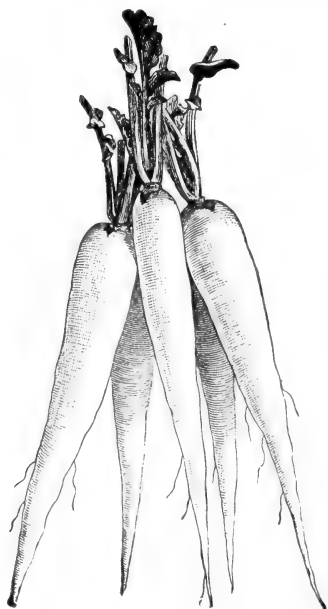
LONG SCARLET.



FRENCH BREAKFAST



IMPROVED CHARTIER.



LADY FINGER, or WHITE VIENNA.



SCARLET TURNIP WHITE TIP.

Radishes—Continued.

WINTER VARIETIES.

CALIFORNIA MAMMOTH WHITE CHINA.

This is the largest of all Radishes. Roots grow 10 to 12 inches long, and are solid, tender and crisp. Keeps well through the winter.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 70c.

CHINA ROSE WINTER.

One of the best fall and winter varieties; a favorite with market gardeners; bright rose color; flesh white, firm and of superior quality.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

LONG BLACK SPANISH.

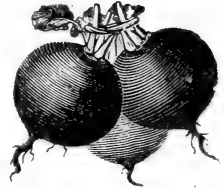
A long, black-skinned variety; flesh white and slightly pungent. One of the latest and hardiest.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

ROUND BLACK SPANISH.

Skin black; roots globe shaped; white fleshed and pungent flavor.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.



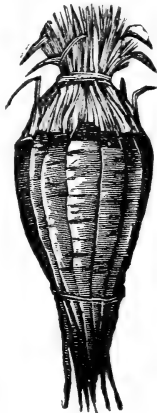
ROUND BLACK SPANISH.

RAPE, Dwarf Essex.

See Field Seeds, page 56.

Salsify, or Vegetable Oyster

Salsify is a nutritious and wholesome vegetable, having the appearance of a small parsnip; in flavor closely resembling oysters, for which it is, in that respect, a good substitute. It is rapidly coming into more general use. Sow early in spring, in drills a foot apart, and when two or three inches high thin out to three or four inches. Its general culture is the same as that recommended for carrots. The roots are perfectly hardy and may remain in the ground during winter, or may be stored in dry earth or sand.



SALSIFY.

MAMMOTH SANDWICH ISLAND.

The leading variety; produces a large crop of straight, smooth roots.

Pkt., 5c.; oz., 15c.; 2 oz., 25c.; ¼ lb., 40c.; lb., \$1.25.

LARGE WHITE.

An early kind; tender and excellent.

Pkt., 5c.; oz., 10c.; 2 oz., 20c.; ¼ lb., 30c.; lb., \$1.00.

SUNFLOWER.

See Flower Seeds; also Field Seeds, page 53.

SUGAR-CANE.

See Field Seeds, page 53.

SQUASH SUMMER VARIETIES.

CULTURE.—The plants are very tender and sensitive to cold, and planting must be delayed until settled warm weather. The general principles of culture are the same as those given for cucumbers and melons, but squash is less particular as to soil. The summer varieties should be planted four to six feet apart each way, and the winter sorts eight to ten. Three plants are sufficient to a hill. In gathering the winter sorts, care should be taken to not bruise or break the stem from the squash, as the slightest injury will increase the liability to decay.

Spinach.

This is an important gardeners' crop, of easy culture. For spring and summer use, sow either broadcast or in drills one foot apart and one inch deep, as early as the ground can be worked and every two weeks for a succession.

BLOOMSDALE.

A very early variety. Is hardy and may be planted for early spring use.

Pkt., 5c.; 1 oz., 10c.; ¼ lb., 15c.; 1 lb., 40c.

IMPROVED THICK LEAVED.

A variety which grows very rapidly, forming a cluster of large, very thick, slightly savoyed leaves of fine color and quality when cooked. Especially recommended for market gardeners.

Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

LONG STANDING.

An improved variety, slow in going to seed, and perhaps the best for general use.

Pkt., 5c.; 1 oz., 10c.; ¼ lb., 20c.; 1 lb., 45c.

MONSTROUS VIROFLAY.

This variety produces the largest leaves of any, yielding an enormous crop. Excellent for the family or market garden.

Pkt., 5c.; 1 oz., 10c.; ¼ lb., 15c.; 1 lb., 40c.



SPINACH.

PRICKLY WINTER.

The hardiest kind, and may be sown in the fall, only requiring protection during the most severe frosts. The seed is prickly, the leaves rather long and pointed, but thick and succulent.

Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

EARLY YELLOW MAMMOTH BUSH SCALLOP.

An early flat scallop shaped variety; color yellow; flesh pale yellow and well flavored; very productive.

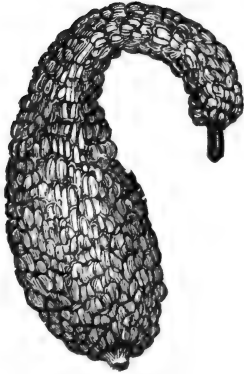
Pkt., 5c.; 1 oz., 10c.; ¼ lb., 25c.; 1 lb., 70c.

FAXON.

It is remarkably prolific in habit, quality dry and rich, without regard to the size, coloring or time of ripening.

Pkt., 5c.; 1 oz., 10c.; ¼ lb., 25c.; 1 lb., 75c.

SQUASH—SUMMER VARIETIES—Continued.



CROOKNECK.

MAMMOTH SUMMER CROOKNECK.

Twice as large as the ordinary Crookneck and several days earlier.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

WHITE SUMMER CROOKNECK.

The fruit is similar in size and shape to the Summer Crookneck, but of a beautiful ivory white color and unsurpassed quality.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

MAMMOTH WHITE BUSH SCALLOP.

The best summer sort for the market; very productive and of good size.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

FALL OR WINTER VARIETIES.

AMERICAN TURBAN, or ESSEX HYBRID.

Short, cylindrical shape, having on the blossom end a small, cap-shaped enlargement. The flesh is dry, sweet and thick, and of a bright orange color. Long keeper. Those desiring a "dry" squash should grow this one.

Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., 85c.

ENGLISH VEGETABLE MARROW.

White flesh; outside yellow; grows about nine inches long; ribbed.

Pkt., 5c.; 1 oz., 10c.; ¼ lb., 25c.; 1 lb., 75c.

BOSTON MARROW.

Skin yellowish, very thin; flesh dry and fine grained, and of unsurpassed flavor.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

ORANGE MARROW.

An improved Boston Marrow. Quite distinct, very early, and of most delicious flavor. Suitable for fall and winter.

Pkt., 5c.; 1 oz., 10c.; ¼ lb., 25c.; 1 lb., 70c.

MARBLEHEAD.

Flesh deep orange colored, very dry and sweet, one of the best keepers.

Pkt., 5c.; 1 oz., 10c.; ¼ lb., 25c.; 1 lb., 85c.

FORDHOOK.

One of the best winter Squashes; fine quality.

Pkt., 5c.; 1 oz., 10c.; ¼ lb., 25c.; 1 lb., 80c.

SIBLEY, or PIKE'S PEAK.

Shell smooth, thin, and of a pale green color; the flesh is thick, solid, deep orange color, very dry, fine grained and delicate flavor.

Pkt., 5c.; 1 oz., 10c.; ¼ lb., 30c.; 1 lb., \$1.00

MAMMOTH CHILI.

The largest of all Squashes, growing to an enormous size, often weighing over 200 pounds, while its rich, fine-flavored flesh insures its value for all purposes. Its size makes it valuable for stock feeding.

Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.10.



BUSH SCALLOP SQUASH.

TRUE HUBBARD.

The best seller and most popular variety on our list. Rind dark green, warty and very hard. Flesh light orange, very dry, sweet and rich flavored. Has no superior for winter use, as it keeps perfectly through the winter.

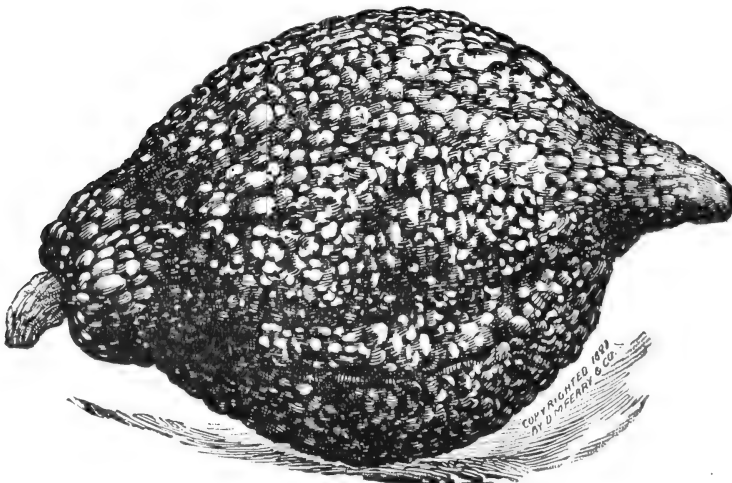
Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

GOLDEN HUBBARD

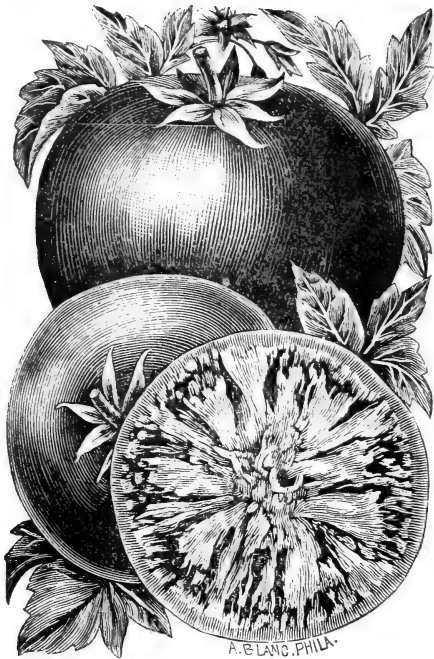
Like the same in size, shape and quality as the well-known Hubbard Squash, except that it is of a bright red or golden color, and somewhat earlier. It is also a long keeper. Considered by expert judges to be one of the very best fall and winter sorts yet introduced.

Matures before the frosts; is vigorous and wonderfully productive. In flavor it has no equal.

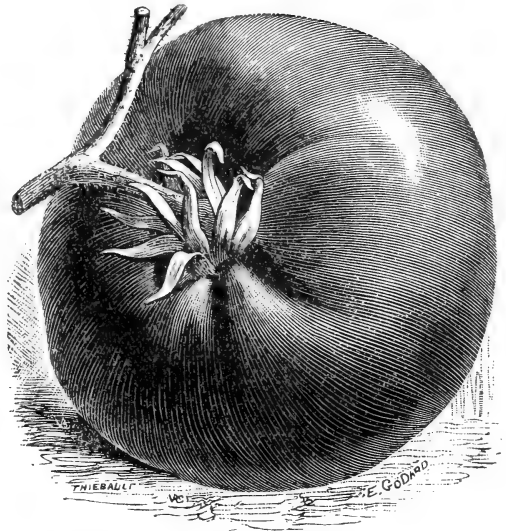
Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.



TRUE HUBBARD SQUASH.



EARLY MICHIGAN.



MAGNUS.

Early Michigan.

An extremely smooth and perfectly shaped Tomato; very early; vines strong and vigorous.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.

Atlantic Prize.

In point of earliness this undoubtedly takes the lead. In size, shape and color it compares favorably with later sorts. Color, bright red.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.

Quarter Century.

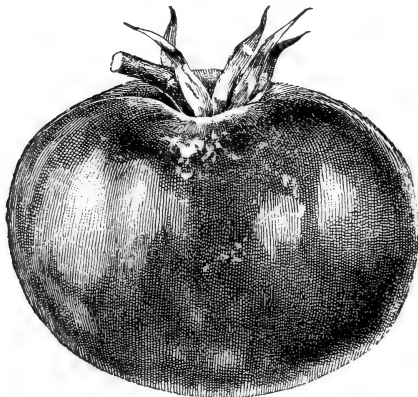
A grand new dwarf, similar in growth to the Dwarf Champion. The fruit is larger and heavier and superior in flavor; in color, deep red. They fully retain color and flavor when canned or prepared for the table. Fine for home garden.

Pkt., 5c.; oz., 40c.; $\frac{1}{4}$ lb., \$1.25.

NEW MAGNUS.

The most handsome sort in cultivation. Fruit very smooth, dark red, heavy and solid. Ripens very early and does not crack. No hard core; quality unsurpassed; a strong, vigorous grower and heavy cropper. This variety has been selected by one of our oldest tomato growers as being the best for main crop in this valley.

Pkt., 5c.; oz., 35c.; $\frac{1}{4}$ lb., \$1.00.



NEW QUARTER CENTURY.

Tomatoes.

CULTURE.—Sow early, in hotbeds, and as soon as they have four leaves transplant into shallow boxes. Harden off, and set out as soon as danger of frost is past.

TOMATO PLANTS.

Strong, healthy, hardy plants, the kind that bear those handsome, large, red, smooth Tomatoes. We have millions in season. Let us book your order when you send in your seed order. See Vegetable Plant List for prices.

FORDHOOK FIRST.

A very early, large, smooth tomato of good form and yield.

Pkt., 5c.; 1 oz., 20c.; $\frac{1}{4}$ lb., 65c.

LIVINGSTON'S PERFECTION.

One of the best, medium early; round, uniformly smooth; vines very productive; fruit deep scarlet, firm, and of excellent quality. Vines continue long in bearing.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.

LIVINGSTON'S FAVORITE.

One of the best for general crop; vines vigorous, continuing in bearing all season.

Pkt., 5c.; 1 oz., 20c.; $\frac{1}{4}$ lb., 60c.

NEW STONE.

Ripens for main crop; very large; color bright scarlet; very smooth; ripening even to the stem without a crack; exceedingly solid and firm fleshed; an excellent shipper; quality the very best; not subject to rot. Superior for canning.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.

NEW IMPERIAL.

This fine new Tomato is very early, large, quite fleshy and free from any hard core. The fruits are red, smooth and of fine form.

Pkt., 5c.; 1 oz., 25c.; $\frac{1}{4}$ lb., 75c.

PONDEROSA.

The largest Tomato yet offered; very solid; few seeds. In color it is a beautiful crimson throughout. Quite early.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.

TOMATOES—Continued.

WELL KNOWN STANDARD VARIETIES. POST-PAID. BY MAIL.

	Pkt.	Oz.	¼ lb.
Dwarf Champion. Dwarf, upright growth; smooth purple fruits	5c.	20c.	60c.
Trophy. Very large, solid, and generally smooth; selected strain	5c.	20c.	60c.
Acme. The well known standard bright pink Tomato.	5c.	20c.	60c.
Royal Red. Intensely bright red in color, but not very solid	5c.	20c.	60c.
Livingston's Beauty. Large; a good quality; deep red in color.....	5c.	20c.	60c.
Optimus. Second early, red, smooth and handsome	5c.	20c.	60c.
Golden Queen. This is a first-class large, smooth, pure yellow Tomato	5c.	25c.	75c.
Husk Tomato, or Ground Cherry. Used mostly for preserves	5c.	30c.	75c.
Red Pear, Yellow Plum, or Red Cherry. Small Tomatoes resembling the different fruits named	5c.	30c.	75c.

THE CONSOLIDATION.

Upon taking the Lamberson business we find on hand a large supply of printed matter, especially small seed packages ready to be filled. As these are nice, new packets, we have decided to use them. So, if you should receive some, please remember that they are not old stock, but CONTAIN NEW SEEDS.

TOBACCO.

HAVANA Pkt., 5c.; oz., 35c.; ¼ lb., \$1.00.

CONNECTICUT SEED LEAF.....

Pkt., 5c.; oz., 20c.; ¼ lb., 60c.

For TOBACCO PLANTS see Vegetable List.

TURNIP.

EXTRA EARLY PURPLE TOP MILAN.

This variety is ready for the table sooner after planting than any other yet introduced. Top small, erect, strap-leaved, bulb a deep purple above, white underneath; flesh white, firm, and delicate. Remains tender and in condition for the table a long time.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 70c.

WHITE MILAN.

Same as above, but pure white.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

EARLY PURPLE TOP, Strap-Leaved.

One of the best and most universally grown. Small, erect top, round, flat; purplish red above, white underneath; flesh firm, but very tender and sweet. Of quick growth, it is soon ready for the table, and keeps well.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

EARLY WHITE FLAT DUTCH, Strap-Leaved.

A leading white fleshed variety, and one of the best, either for the family, market garden or field crop. It is medium size, and produces a large crop. The flesh is firm, but tender, and of a superior rich, buttery flavor. A good keeper.

Pkt., 5c.; oz., 10c.; 2 oz., 15c.; ¼ lb., 20c.; lb., 60c.

POMERANIAN WHITE GLOBE.

It is one of the most productive kinds, and in good rich soil roots will frequently grow to 12 pounds in weight. It is of perfect globe shape; skin white and smooth; leaves dark green and of strong growth.

Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 60c.

PURPLE TOP WHITE GLOBE.

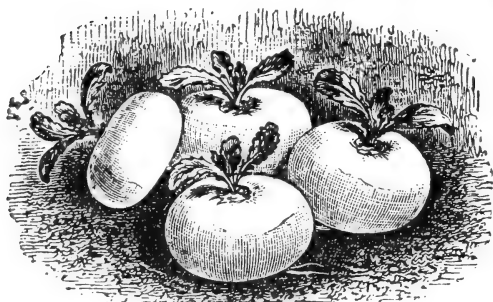
A large globe-shaped variety; purple above ground. It is handsome and of excellent quality, and recommended both for the family garden and field crop.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

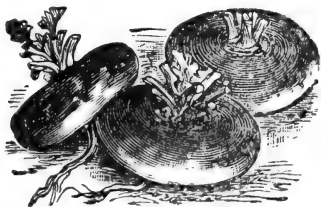
LARGE WHITE FLAT NORFOLK.

A round, flat, white variety, usually attaining a very large size. Extensively grown for stock feeding. The leaves are also used for greens. It is hardy, and may remain in the ground all winter. Yields a very large crop.

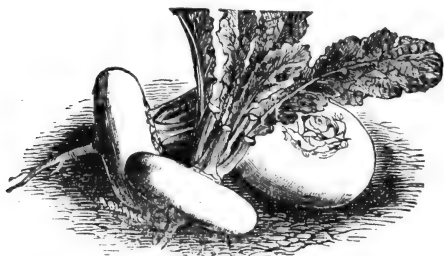
Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.



NEW EXTRA EARLY WHITE MILAN.



EARLY RED-TOP, STRAP LEAVED.



EARLY WHITE FLAT DUTCH, STRAP LEAVED.

TURNIPS—Continued.**WHITE EGG.**

Is perfectly smooth, of a pure, clear white, growing half out of the ground, and at times to the size of a Ruta-baga, being a very choice kind for table use; of excellent flavor, sweet and mild. It pulls clean from the ground; thin, snow white skin. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

COWHORN.

Sometimes called Long White. Slightly crooked. Pure white except a little shade of green at the top. Grows half out of the ground and is of very rapid growth. Is delicate and well flavored. Has proven itself one of the best stock turnips ever introduced in Oregon, as it is an immense yielder. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Yellow^{ed} Fleshed^d Varieties.**LARGE AMBER GLOBE.**

One of the best for general crop; flesh firm and sweet; grows to a large size, excellent for table use or for feeding stock. Keeps well till late in the spring. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

WHITE EGG.

COWHORN.

PURPLE TOP YELLOW ABERDEEN.

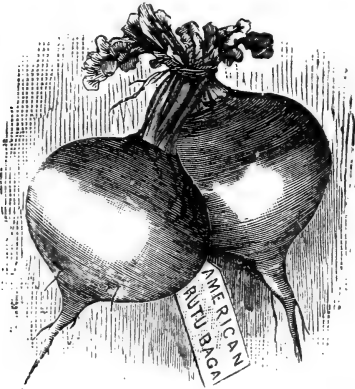
Round, medium size, light yellow; stained with purple on top. Produces a large crop; is hardy and keeps well; flesh very firm, but tender and sweet. A great favorite with the dairy men.

Pkt., 5c.; oz., 10c.; 2 oz., 15c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.**ORANGE JELLY, or ROBERTSON'S GOLDEN BALL.**

Undoubtedly among the most delicate and sweetest yellow fleshed turnips yet introduced. Not of large size, but firm, hard and most excellent flavor. Keeps well and is superior as a table variety. It is extensively used. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

**RUTA-BAGAS, or
SWEDES.****IMPROVED AMERICAN PURPLE TOP.**

The leading standard variety, being very distinct in type, attaining a wonderfully large size, immense yielder. The flesh is very firm, superior in every way, valuable alike for all purposes.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

AMERICAN RUTA-BAGA.

MONARCH, or TANKARD.

This is a yellow fleshed sort, having very large tankard-shaped roots; flesh very solid, fine grained, of fine flavor; grows well out of the ground and yields large crops. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

SKIRVING'S RUTA-BAGA.

Enormously productive; flesh yellow, solid and sweet. One of the best for field culture. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

WHITE SWEET RUSSIAN.

This variety is most excellent, either for table or stock. It grows to a very large size, flesh white, solid, of a firm texture, sweet and rich, an excellent keeper. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 60c.

TREE SEEDS.

Single Pound prices are by mail, post-paid.

APPLE SEED.(French Crab.) 1 oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.**CHERRY PITS, MAZZARD.**(Cerasus.) 1 oz., 10c.; $\frac{1}{4}$ lb., 15c.; 1 lb., 40c.**CHERRY PITS, MAHALEB.**1 oz., 10c.; $\frac{1}{4}$ lb., 20c.; 1 lb., 50c.**PEACH PITS.**

For nursery stocks. 1 lb., 20c.; 100 lbs., \$2.00.

PEAR SEED.(Pyrus Communis.) The best imported for nursery stocks. 1 oz., 15c.; $\frac{1}{4}$ lb., 45c.; 1 lb., \$1.50.**PEAR SEED, NATIVE.**1 oz., 20c.; $\frac{1}{4}$ lb., 50c.; 1 lb., \$2.00.**PLUM PITS.**(Prunus myrabolano.) For nursery stock. 1 oz., 10c.; $\frac{1}{4}$ lb., 25c.; 1 lb., 65c.**QUINCE SEED.**1 oz., 20c.; $\frac{1}{4}$ lb., 50c.; 1 lb., \$2.00.**BOX ELDER, or ASH LEAF MAPLE.**(Acer negundo.) 1 oz., 10c.; 2 oz., 15c.; $\frac{1}{4}$ lb., 20c.; 1 lb., 60c.**HORSE CHESTNUT, or BUCKEYE.**

1 lb., 35c.

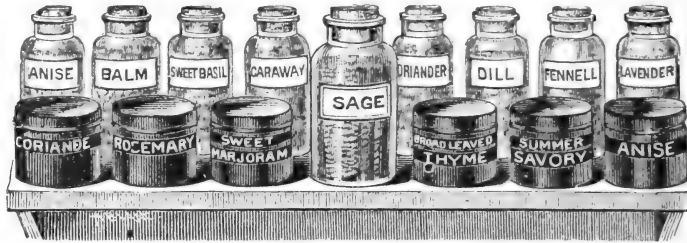
LOCUST, YELLOW or BLACK.

A tree of rapid growth. Sown in our western states for timber.

1 oz., 10c.; $\frac{1}{4}$ lb., 20c.; 1 lb., 50c.**LOCUST, HONEY.**1 oz., 10c.; $\frac{1}{4}$ lb., 20c.; 1 lb., 60c.**NURSERY MEN:—**

We offer only Fresh, New Crop Seeds. Growers wanting large quantities should give us their orders early. Special prices on request. NEW TREE SEED IS VERY SCARCE THIS SEASON.

Herb Seeds—Pot, Sweet and Medicinal.



Herbs in general delight in rich, mellow soil. Those marked with a (*) are perennial, and when once obtained in the garden may be preserved for years with a little attention. Sow the seeds early in the spring in shallow drills, one foot apart. We offer some of the most useful and popular. They should be cut on a dry day, just before they come into full blossom, tied in bunches and hung up or spread thinly on a floor, where they can dry quickly. Prices include postage.

All Herb Seeds 5c per Pkt.

ANISE. Seeds aromatic.
oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 85c.

BALM. For culinary purposes.
oz., 25c.; $\frac{1}{4}$ lb., 65c.; lb., \$2.25.

BASIL, SWEET. (Broad Leaved)
oz., 15c.; $\frac{1}{4}$ lb., 45c.; lb., \$1.50.

BORAGE. Leaves for flavoring.
Oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.

***CARAWAY.**
oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 80c.

CATNIP. (Cat Mint.)
oz., 35c.; $\frac{1}{4}$ lb., \$1.00; lb., \$3.75.

CORIANDER. (Aromatic.)
oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 70c.

DILL. (Used medicinally.)
oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

***FENNEL.** (Sweet.) oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

FENUGREEK. oz., 10c.; lb., 35c.

***HOREHOUND.** Bitter for tonic. oz., 20c.

HYSLOP. Medicinal qualities.
oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.50.

***LAVENDER.** For fragrance.
oz., 20c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.

***MAJORAM, SWEET.**
oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.50.

***ROSEMARY.** Aromatic oil.
oz., 30c.; $\frac{1}{4}$ lb., 90c.; lb., \$3.25.

***RUE.** Has medicinal qualities.
oz., 20c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.

SAGE. Culinary herb; much used.
Oz., 20c.; $\frac{1}{4}$ lb., 45c.; lb., \$1.60.

SAFFRON. oz., 20c.

SORREL. (Large Leaved.) Cultivated for acidity; used in salads. oz., 10c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.10.

SUMMER SAVORY. Culinary herb.
oz., 10c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.10.

THYME. (Broad Leaved.)
oz., 30c.; $\frac{1}{4}$ lb., 85c.; lb., \$3.00.

WORMWOOD. Medicinal use. oz., 20c.

Herb Seeds for Flavoring.

ANISE.

Anise seed for flavoring. $\frac{1}{4}$ lb., 15c.; lb., 40c.

CARAWAY FOR FLAVORING.

We keep constantly on hand a large stock of well preserved seed for the use of Druggists, Bakers and Confectioners.

$\frac{1}{4}$ lb., 15c.; lb., 35c.; 100 lbs., market price.

CORIANDER.

Coriander seed for flavoring.

$\frac{1}{2}$ lb., 20c.; lb., 35c.; 100 lbs., market price.

DILL.

Dill seed for flavoring.

$\frac{1}{2}$ lb., 20c.; lb., 35c.
Used to flavor soups and stews, and in pickles. The leaves possess similar qualities, and can be used in the same manner as the seeds.

Persons who use these Seeds in quantity should write for prices.

Flower Seed Department

NEW AND STANDARD VARIETIES.

ANNUALS bloom and ripen the first year, and then perish.

BIENNIALS do not generally flower the first year, and are in perfection only one year.

PERENNIALS continue to flower several years in succession.

Hardy Annuals, Biennials and Perennials can be sown in the open ground early in the spring. If desired, and Biennials and Perennials will not require any protection in winter.

Half Hardy Annuals, Biennials and Perennials should not be sown in open ground until settled warm weather, though they can be sown in the house, if desired, early, and afterwards transplanted. The two latter need to be protected in the winter, or carried over until spring in cold frames or green houses.

CULTURE DIRECTIONS are given on nearly all packets, and we urge purchasers to study them carefully. While some seeds need special treatment, the following general rules will apply to all: Make the surface as fine and smooth as possible; do not plant any seeds when the ground is wet; cover each lot of seeds to a uniform depth, which should never be more than three or four times the diameter of the seed; press the soil firmly over the seeds, plant in rows so that the young plants can be readily seen, and pull up all weeds as soon as they appear.

All Flower Seeds Sent by Mail on Receipt of the Price Placed Opposite Each Name.

FOR YOUR GUIDANCE we have placed after each flower the following numbers and letters, to-wit: A for Annuals, B for Biennials, P for Perennials, H for Hardy, H H for Half Hardy, T for Tender, requiring protection. (1) denotes varieties for bedding; (2) for borders; (3) for climbers; (4) for potting; (5) for leaves only; (6) for hanging baskets; (7) everlasting. In the column the price per pkt. is given in cents.



Aster.



Balsam.



Agrostemma.

We offer only the
choicest and best
Flower Seeds.

ACROLINIUM. h. h. A. 1.

(Everlasting Flower.)

Produces beautiful, daisy-like flowers. Height, 10 to 15 inches.

Mixed, all colors, Pkt. 5c.

AGERATUM. h. h. A. 1-2.

The flowers are graceful tufts of fine petals; blooms all summer.

Mixed, Pkt. 5c.

AGROSTEMMA. h. P. 1-2.

Its graceful pink-like flowers remain fresh a long time after being cut. Thrives in any good soil.

Coronaria.—Rose Champion. Pkt. 5c.

ALYSSUM. h. A. 1-2.

Well known and popular border plant of easy cultivation. They have a delicate, agreeable fragrance, very popular in bouquets.

Maritimum. Sweet. Pkt. 5c.

Maritimum. Little Gem. Pkt. 5c.

AMARANTHUS. h. h. A. 1-5.

Graceful and easily grown. The colors are brighter if planted in not too rich soil.

Amaranthus. Plants for bedding purposes.

Melancholicus Ruber. Dwarf; deep red foliage. Pkt., 5c.

Caudatus. Graceful, drooping flowers. Pkt., 5c.

Cruentus. Handsome, erect flowers. Pkt., 5c.

Tricolor.—(Joseph's Coat.) Foliage scarlet, yellow and green. Pkt., 5c.

AMMOBIUM. h. h. A. 7.

The flowers are pure white. Pkt., 5c.

ANEMONE CORONARIA. h. P.

Beautiful spring flowers for cutting. Mixed. Pkt., 5c.

ASTER. h. h. A. 1-2.

Popular and well known. As a fall-blooming annual it has no superior; produces a profusion of flowers of a great variety of rich colors and shades, of varied and beautiful form. The late flowers are usually the best, and to sustain the plant it should have rich soil and abundant moisture.

Chrysanthemum, Flowered. Half Dwarf, White, Scarlet, Lilac, Rose. Mixed. Each Pkt., 10c.; ¼ oz., 50c.

Giant Comet. Rose, Crimson, Light Blue, Snow White. Mixed. Each. Pkt., 10c.; ¼ oz., 50c.

German Quilled. Mixed. Pkt., 5c.; ¼ oz., 35c.

Semple's Late Branching. Mixed. Pkt., 10c.; ¼ oz., 35c.

Jewel. Mixed. Pkt., 10c.

Truffaut's Paeony Perfection. White, Crimson, Light Blue, Rose. Mixed. Each Pkt., 10c.; ¼ oz., 75c.

Auricula. h. P. 4. (Primula Auricula.) Beautiful spring blooming flowers. Fine Mixed. Pkt., 25c.

BALSAM. h. h. A.

(Ladies' Slipper—Touch-Me-Not.)

Exceedingly attractive and handsome plants, producing masses of various colored flowers.

Tall Double Camellia Flowered. Mixed. Pkt., 5c.; ¼ oz., 20c.

Dwarf Double. Mixed. Pkt., 10c.; ¼ oz., 25c.

Browallia, t. A. 4. Mixed. Pkt., 5c.

Brachycome, h. h. A. 2. (Swan River Daisy.) A handsome dwarf growing, free flowering annual. Pkt., 5c.

Briza Maxima. Handsome ornamental grass. Fine for winter bouquets. Pkt., 5c.

BROWALLIA. A. 1.

Handsome, free-flowering. Covered all summer with bright, rich blue and white flowers. Mixed. Pkt., 5c.



Ageratum.



Alyssum.



Carnation.

CALCEOLARIA.—t. P. 1-4.

Very handsome and much admired. Produces a profusion of beautiful flowers of unique form
 Hybrida Mixed.....Pkt., 25c.

CARNATION.—h. h. P. 1-4.

Universally admired, deliciously fragrant. Unsurpassed for richness and delicacy of form and color.

Extra Choice Double Mixed.....Pkt., 20c.
 Common Double. Mixed.....Pkt., 10c.
 Margaret. Mixed.....Pkt., 10c.

CALENDULA. h. A. 2-4.

Showy, free flowering. Mixed.....Pkt., 5c.

CANARY BIRD FLOWER. h. h. A. 3-6.

Climbing plant with graceful foliage and yellow blossoms.....Pkt., 5c.

CANNA. h. P. 1.

Ornamental, tropical looking plants, of easy culture, large and beautiful flowers.

Crozy's fine mixed.....Pkt., 10c.

CALLIOPSIS, or COREOPSIS. h. A. 1.

Very showy and attractive. Covered with a mass of bright flowers.

Choice Mixed.....Pkt., 5c.

CASTOR BEAN. h. h. A. 1.

Highly ornamental, of stately growth and having large leaves of bronze or glossy green.

Sanguineus. Brilliant Scarlet.....Pkt., 5c.; oz., 15c.

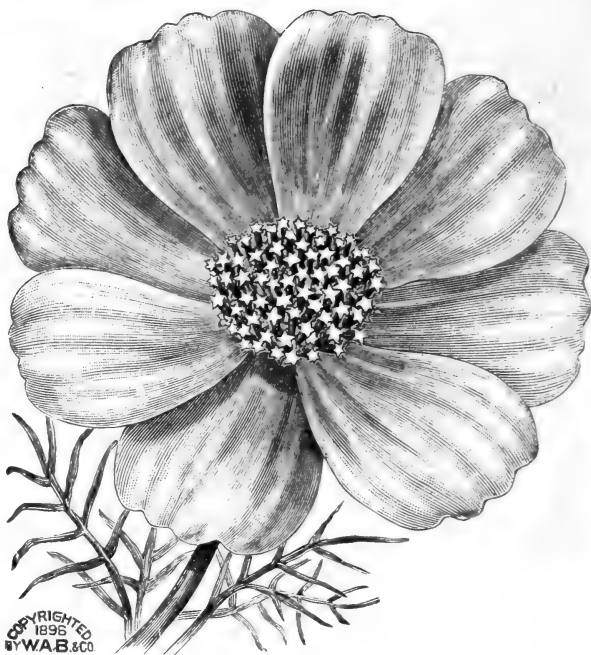
Barbonliensis Arboreus.

The largest variety.....Pkt., 10c.; oz., 20c.

Mixed. Best varieties.....Pkt., 5c.; oz., 10c.

CATCHFLY. h. A. 1.

Mixed.....Pkt., 5c.



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BY W.A.B. & CO

Mammoth Cosmos.

CANDYTUFT. h. A. 1-2-4.

Well-known hardy plants. Produce a profusion of bright, cheerful flowers.

Odorata. Sweet scented. White.....Pkt., 5c.; oz., 25c.
 Carmine.....Pkt., 5c.
 Purple.....Pkt., 5c.
 Mixed. All colors.....Pkt., 5c.; oz., 25c.
 Sempervirens. Perennial. White.....Pkt., 5c.

CANTERBURY BELL. h. B. 1.

Their large bell-shaped flowers are borne on tall, graceful stalks. Very showy and attractive.

Single Mixed.....Pkt., 5c.
 Double Mixed.....Pkt., 10c.

CELOSIA. h. h. A. 1-2-4.

(Cockscomb.)

Cristata. Finest varieties.....Pkt., 5c.
 Glasgow Prize. Crimson.....Pkt., 10c.
 Plumosa. Mixed colors of great brilliancy.....Pkt., 10c.
 Ostrich Feathered. Mixed.....Pkt., 10c.
 Thompson's Superb Feathered. Mixed.....Pkt., 10c.
 President Thiers.....Pkt., 10c.

CENTAUREA. P. 1-2.

Candidissima. Dwarf, silvery foliage plants.....Pkt., 10c.

CHRYSANTHEMUM. h. A. 1-2.

Very showy, effective and desirable as summer flowering plants.

Carinatum. Mixed.....Pkt., 10c.
 Frutescens. (Marguerite, or Paris Daisy.).....Pkt., 10c.

CINERARIA. h. h. P. 1-4.

One of the brightest and most valuable of early spring flowers.

Hybrida. Double. Mixed. Extra choice.....25c

CLARKIA. h. A. 1-2-6.

Pretty, free-flowering plants of easy cultivation.
 Double Mixed.....Pkt., 5c.



Calliopsis.



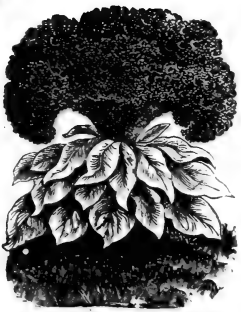
Calceolaria.



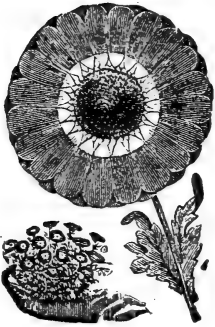
Canterbury Bells.



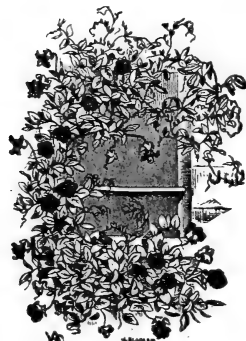
Candytuft.



Celosia.

Chrysanthemum
Annual.

Cineraria.



Cobaea Scandens.

COSMOS. h. h. A. 1.

Tall growing, showy autumn-blooming plants, which have gained rapidly in favor within the last few years, the mammoth varieties being especially fine.

Early Blooming. Mixed.....Pkt., 10c.; 1/2 oz., 25c.
Mammoth. Mixed.....Pkt., 10c.; 1/2 oz., 25c.
Mammoth White.....Pkt., 10c.
Mammoth Pink.....Pkt., 10c.
Mammoth Red.....Pkt., 10c.

COLUMBINE. h. P. 1.

(Aquilegia.)

Commonly known as the Honeysuckle. Produces handsome flowers of unique form and many bright and attractive colors.

Mixed. Best double and single varieties.....5c.

COLLINSIA. h. A. 1.

Flower early in the spring.....Pkt., 5c.

COBAEA SCANDENS. t. P. 3.

A handsome, rapid growing, climbing plant, having large, bell-shaped flowers, beautiful foliage and particularly delicate and curious tendrils.

Purple or White.....10c.

CYCLAMEN GIGANTEUM. P. 4.

The seed produces bulbs from which beautiful flowers are produced within twelve months time.

Giganteum Hybridum. Mixed.....Pkt., 25c.

CYPRESS VINE. t. A. 3.

(Ipomea Quamoclit.)

A climber of rapid growth, having handsome fern-like foliage and a profusion of bright, attractive flowers.

Mixed, all colors.....5c.

DAHLIA. h. h. P. 1.

A magnificent fall-blooming bulbous-rooted plant, which can be readily started from seed.

Tall Double Mixed.....Pkt., -5c.

Dwarf Double Mixed.....Pkt., 15c.

For Dahlia Bulbs see Index.

DATURA. h. h. P. 1.

Fastuosa. Trumpet Flower. Produce large, sweet scented flowers.....Pkt., 5c.

DAISY. h. P. 1-2.

(Bellis Perennis.)

A well known and popular low-growing plant, bearing beautiful flowers.

Longfellow. Double Red.....Pkt., 15c.

Double White.....Pkt., 15c.

Double Mixed.....Pkt., 15c.

DRACAENA. t. P. 4-5.

Ornamental green house plant. Very desirable.

Draco.....Pkt., 25c.

Indivisa Lineata.....Pkt., 10c.

ESCHSCHOLTZIA. h. A. 1-2.

(California Poppy.)

Showy bedding flowers of easy growth, quite popular.....Pkt., 5c.

Californica. Yellow. Mixed.....Pkt., 5c.; oz., 25c.

Double Mixed.....Pkt., 5c.; oz., 25c.

ECHINOCYSTIS LOBATA. h. A. 3.

(Wild Cucumber.)

A rapid growing climber. Very good for covering old fences or trellises.....Pkt., 10c.

EUPHORBIA VARIEGATA. h. A. 5-4.

Fine variegated foliage.....Pkt., 5c.

FOXGLOVE. h. B. 1-2.

(Digitalis.)

A well-known hardy border plant.

Purpurea. Mixed.....Pkt., 5c.

FOUR-O'CLOCK. h. A. 3.

(Marvel of Peru.)

Having handsome, free-flowering, sweet-scented, various colored blossoms.

Mixed.....Pkt., 5c.; oz., 15c.

FORGET-ME-NOT. h. P. 1-2.

(Myosotis.)

Beautiful spring favorites, of easy growth.

Alpestris Blue.....Pkt., 10c.

Mixed.....Pkt., 10c.

Palustris, the true "forget-me-not" of Europe.....Pkt., 10c.

Semperflorens. Everblooming. Blue.....Pkt., 10c.

GALLARDIA. h. h. P. 1.

Showy and free bloomers. Fine for bouquets.

Mixed.....Pkt., 5c.

GEUM. h. P. 1.

(Chiloense.)

Hardy, free-blooming plants.

Scarlet. Double.....Pkt., 5c.

GILIA. h. A. 1.

Blooms freely. fine for beds.

Mixed.....Pkt., 5c.

GLOBE AMARANTH. h. A. 7.

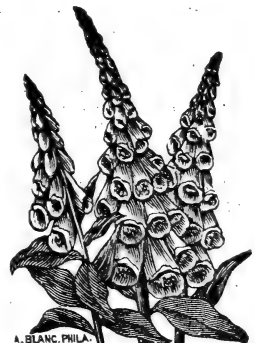
(Gomphrena.)

An old favorite everlasting flower.

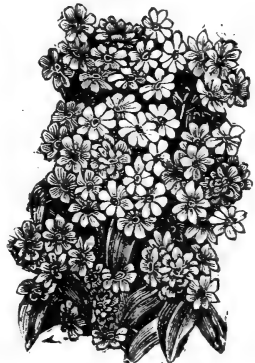
Mixed.....Pkt., 5c.



Dahlia.

Eschscholtzia, or
California Poppy.

Foxglove.



Forget-Me-Not.



Hollyhock.



Imperial Japanese Morning Glory.



Heliotrope.

GODETIA. h. A. 1-2.

Fine, profuse bloomer.

Fine Mixed.....Pkt., 5c.

GREVILLEA. ROBUSTA.The Silk Oak. Very beautiful and graceful foliage.
Pkt., 10c.**GYSOPHILA. h. A. 1-2.**

A pretty, free-flowering little plant.

Paniculata. h. P. (Baby's Breath.) Pure white,
fine.....Pkt., 5c.

Muralis. h. A. Pink.....Pkt., 5c.

GOURDS. t. A. 3.

Of rapid growth and bearing curious fruits of various sorts.

Dishcloth, Dipper, or Bottle, Egg-Shaped, Each
Pkt., 5c.

Large Varieties. Mixed.....Pkt., 5c.; oz., 25c.

Small Varieties. Mixed.....Pkt., 5c.

Gloxinia. t. P. 4.

Beautiful greenhouse plants.

Hybrida. Mixed.....Pkt., 50c.

HELIOTROPE. h. h. A. 1-2-4.

Beautiful, fragrant greenhouse and bedding plant.

Mixed.....Pkt., 10c.

HELICHRYSUM. h. A. 7.

Everlasting flower. One of the best.

Double Mixed.....Pkt., 5c.

HIBISCUS. h. A. 1.

(Africanus.)

Fine, showy plants, with glossy leaves and large brilliant flowers.

Extra Mixed.....Pkt., 5c.

HOLLYHOCK. h. P. 1.

(Althaea.)

The Hollyhock has been greatly improved of late, and should now have a place in every garden.

Chater's. Choice, Double Mixed.....Pkt., 10c.

Double Crimson, Scarlet, White or Yellow, each
Pkt., 10c.

Allegheny. Double Choice Mixed.....Pkt., 10c.

HAYACINTH BEAN. h. h. A. 3.

(Dolichos Lablab.)

A rapid-growing, free-flowering vine.

Mixed.....Pkt., 5c.

ICE PLANT. t. A. 4-6.

(Mesembrianthemum Crystallinum.)

An interesting plant.

Pkt., 5c.

IPOMOPSIS. t. B. 1-4.

Bright and beautiful flowers.

Mixed.....Pkt., 5c.

KAULFUSSIA. h. A. 2-1.

Pretty, free-flowering plants of compact growth.

Mixed.....Pkt., 5c.

LANTANA. h. h. P. 1-4.

A handsome free-flowering plant with brilliantly colored flowers.

Mixed.....Pkt., 10c.

LARKSPUR. A. P. 1.

(Delphinium.)

Free-blooming, hardy plants of erect branching habits.

Dwarf German. A. Double. Mixed.....Pkt., 5c.

Tall Branching. P. Mixed.....Pkt., 5c.

LOBELIA. h. h. A. 1-2.

Delicate, low-growing, annual plants, of the greatest value for borders, ribbons, edgings, rock work and hanging baskets.

Blue.....Pkt., 10c.

Finest Mixed.....Pkt., 10c.

Erinus. (Crystal Palace Compacta.) Dwarf. Dark
blue.....Pkt., 10c.**LINUM. h. P. 1.**

Grandiflorum Rubrum. Crimson Flax.....Pkt., 5c.

Perennial. Mixed.....Pkt., 5c.

LYCHNIS. h. P. 2.

Haageana Hybrida. Easy culture. Very effective in shrubby borders. Mixed.....Pkt., 10c.

Marigold. h. A. 1-2.

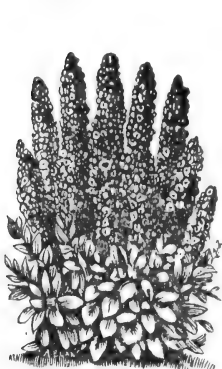
(Tagetes.)

The Marigolds are well known hardy annuals of easy cultivation. The colors are gold, orange and varying shades of these colors. They flower early and bloom all summer.

African. Double Mixed.....Pkt., 5c.; oz., 25c.

African. Double Dwarf. Mixed.....Pkt., 5c.

French. Double Mixed.....Pkt., 5c.; oz., 25c.



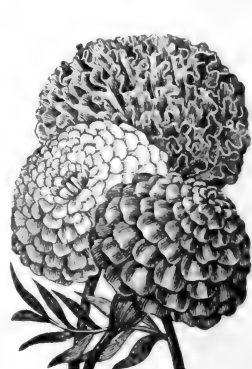
Mignonette.



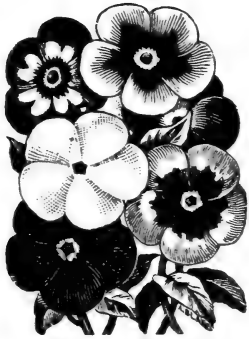
Lobelia.



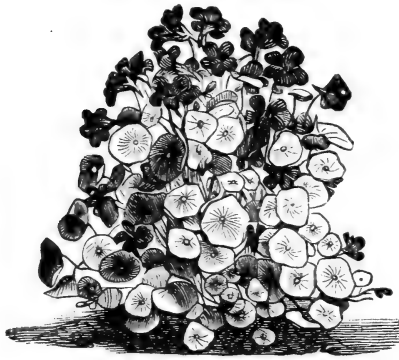
Mimulus.



Marigold.



Phlox Drummondii.



Nasturtium.



Portulaca.

MIMULUS. h. P. 2-4.

Moschatus. (Musk Plant.) Cultivated for its rich, musky odor. Should have a rich soil and ample moisture Pkt., 10c.
Tigrinus Grandiflorus. (Monkey Flower.) Mixed. beautifully spotted, all colors.....Pkt., 10c.

MIMOSA. t. A. 4-6.

Pudica. (Sensitive Plant.) Very curious and interesting plant, its leaves closing if touched or shaken.Pkt., 5c.

MOON FLOWER. h. A. 3.

(Ipomoea Mexicana Grandiflora.) Rapid growing climber, belonging to the Morning Glory family. The flowers are large, waxy white and very showy.Pkt., 5c.

MIGNONETTE. h. A. 1-2.

(Reseda.) Very fragrant; flowers produced in spikes. **Odorata Grandiflora.** Very fragrant. Pkt., 5c.; oz., 15c.
Machet. 1-4. Dwarf. Flowers red.Pkt., 10c.; ¼ oz., 20c.

Golden Queen. Dense dwarf growth.Pkt., 10c.; ¼ oz., 15c.

Allen's Defiance. The largest; flowers red.Pkt., 10c.; ¼ oz., 20c.

MORNING GLORY. h. A. 3.

(Convolvulus.) Major, the tall varieties are popular, well known, rapid growing climbers of the easiest cultivation. The Minor, or Dwarf, varieties flower very freely and do not require support.

Convolvulus Major. Tall.Pkt., 5c.; 1 oz., 15c.

Choice Mixed.Pkt., 5c.; 1 oz., 15c.

Brazilian. Mixed.Pkt., 10c.

Imperial Japanese. Has very large flowers in great variety of most exquisite colorings, and handsome, variegated foliage.Pkt., 10c.; oz., 25c.

Convolvulus Minor. 1. Dwarf Mixed. Pkt., 5c.; oz., 15c.

NEMOPHILA. h. A. 1-2.

MixedPkt., 5c.

NIGELLA. h. A. 1-4.

(Love-in-a-Mist, or Devil-in-the-Bush.) Compact growing, free flowering plants, with curious looking, showy flowers and finely cut foliage.Pkt., 5c.

MixedPkt., 5c.

NICOTIANA. h. h. A. 1-4.

(Affinis.) White. Flora Plena.Pkt., 5c.

NASTURTIIUM. h. A. 3.

(Tropaeolum.) Both the leaves and flowers of the Common Tall Nasturtium are very handsome for table decoration. The Lobbianums are, however, superior to the common varieties. The flowers are larger, more compact, richer and more varied in color.

Tall Varieties.

Scarlet, Carmine, Crimson, Bright Yellow, Golden Yellow, Orange. Separate colors.

EachPkt., 5c.; 1 oz., 15c.

Lobbianum Varieties. The very finest flowering kinds. MixedPkt., 5c.; 1 oz., 15c.

Madame Gunter's Hybrids. New, having a richness of color and a variety of brilliant shades and markings hitherto unknown.Pkt., 10c.; 1 oz., 15c.

Dwarf Varieties.

Common Varieties. Fine Mixed.Pkt., 5c.; 1 oz., 10c.

Scarlet, Dark Crimson, Golden King, White Pearl. Separate colors. EachPkt., 5c.; 1 oz., 15c.

Dwarf. Fine MixedPkt., 5c.; 1 oz., 15c.

PAMPAS GRASS. h. A. 1.

(Gynerium Argenteum.) Produces majestic plumes.Pkt., 5c.

PERILLA NANKINENSIS. h. h. A. 5-1-2.

MixedPkt., 5c.

PENTSTEMON. h. P. 1-2.

Beautiful, very hardy and free flowering.Pkt., 5c.

MixedPkt., 5c.

PETUNIA. h. P. 1-2-4.

Universal favorites on account of their richness of color, fragrance and continuous blooming.

Fine Single Mixed.Pkt., 5c.; ¼ oz., 40c.

Large Flowered White.Pkt., 10c.

Double Mixed. Choice Hybrids.Pkt., 25c.

PHLOX DRUMMONDII. h. h. A. 1-2.

Greatly admired by all. Their long duration in bloom, combined with their almost unequaled richness of color, render them of invaluable service in the general flower garden.

Grandiflora. Fine Mixed. Scarlet or White.Pkt., 5c.; ¼ oz., 25c.

EachPkt., 5c.; ¼ oz., 25c.

PHLOX DECUSSATA. P. 1.

Perennial. Fine Mixed.Pkt., 10c.

PINK. h. P. 1-2-4.

(Dianthus.) For beauty, fragrance and general utility can not be excelled.

Chinensis Fl. Pl. Double Mixed.Pkt., 5c.

Heddewigii Fl. Pl. Color varies from richest velvety crimson to delicate rose.Pkt., 10c.

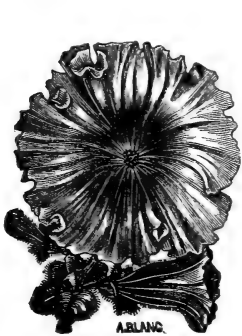
Laciniatus Fl. Pl. Fine double fringed, finest assorted colors.Pkt., 5c.

Plumarius. Fine Mixed.Pkt., 5c.

PYRETHRUM. h. P. 1-2-5.

(Parthenium Aureum.) (Golden Feather.)Pkt., 10c.

Selagenoides. Fine, fern-leaved.Pkt., 10c.



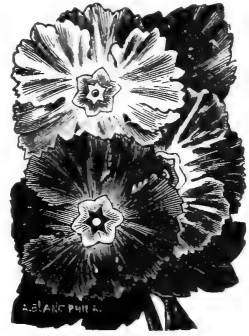
Petunia.



Poppies.



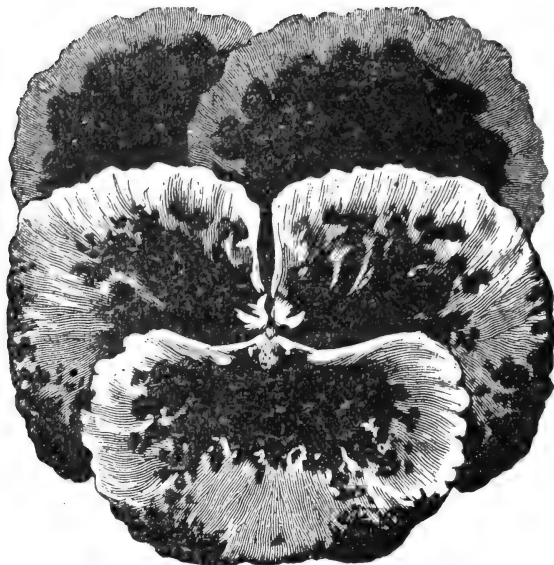
Pink.



Primrose.

PANSIES.

The Pansy is a plant that we all delight to grow in plentiful supply for flowers all the year. For very early outdoor bedding the seed is sown in the fall, in a cold-frame, or in rich, moist garden beds. In outdoor beds, raised a few inches above the ground, with a mulch of dry leaves and some brush to hold them in place, Pansies will often winter nicely, and bloom until midsummer, when a relay of young, vigorous plants should be ready to replace them. Spring sowing should be made early, so as to secure good flowers during the early rains. Seeds sown in a cool, moist place, in June or July, and well tended, will give good flowering plants for fall. If they come into bloom in the heat of summer the flowers may be small at first, but as the weather becomes cooler they will increase in size and beauty. Through summer heat the flowers are finer in a somewhat shaded place, but in almost any situation good Pansy seed will give fine flowers in spring and fall. Early fall sowing gives the finest flowers. Our strains of Pansy seed cannot be surpassed in color and blooming qualities. The collections offered will give superb flowers in a great variety of beautiful colors.



Giant Trimardeau.

Trimardeau Giants.

These are remarkably large Pansies, which for size of flower and robust growth eclipse all other strains. Their range of color has heretofore been limited, but this season we are able to offer several grand varieties.

Pkt.		Pkt.	
GIANT WHITE .....15c.		GIANT BLACK .....15c.	
GIANT YELLOW .....15c.		VIOLET BLUE .....15c.	
GIANT STRIPED .....15c.		GIANT MIXED .....15c.	
Mixed, 1/4 oz., 75c.; 1 oz., \$2.00.			

Special Offer.

1 Pkt. Each of the Above Six Kinds.....60c.

BUGNOT.— Its flowers are of enormous size and circular form; the petals are of great substance and velvety appearance, each one bearing a large, deeply colored blotch that runs out in delicate veins to the edge; the shadings comprise tints of red, bronze and brown not found in any other mixture.

Pkt., 25c.; 1/4 oz., \$1.00.

CASSIER.—This is a very fine mixture of Pansies, marked with three or five blotches on rich backgrounds. The flowers are very large, round, and borne on stiff stalks emerging from bushy, compact plants. This mixture contains a great many red shades.

Pkt., 25c.; 1/4 oz., \$1.00.

PARISIAN LARGEST SPOTTED.—New, very large flowering; very handsome.

Pkt., 15c.

ODIER, or BLOTCHED.—Superb, large flowers, beautifully blotched with rich and varied colors. Extra mixed.

Pkt., 25c.; 1/4 oz., \$1.00

FAUST, or KING OF THE BLACKS.—This is an exceptionally fine strain of this handsome variety, and we recommend it highly.

Pkt., 10c.

EXTRA MIXED.—Large flowering.

Pkt., 10c.; 1/4 oz., 50c.; 1 oz., \$1.50.

FINE MIXED.—Good assortment.

Pkt., 5c.; 1/4 oz., 40c.; 1 oz., \$1.00.

POPPY. h. P. 1-2.

(Papaver.) Showy, free flowering plants, producing a rich, effective display.

Double Carnation. MixedPkt., 5c.; 1 oz., 25c.

Shirley. White, through delicate shades of pink to crimson. Best Mixed.....Pkt., 10c.; 1/4 oz., 25c.

Nudicaule. (Iceland Poppy.) Large and showy; splendid alpine.....Pkt., 10c.; 1/4 oz., 40c.

Danebrog. (Danish Flag.) Scarlet, with a white spot at the base of each petal; brilliant.....Pkt., 5c.

Double Scarlet, White or Double American Flag.

EachPkt., 5c.; 1 oz., 25c.

Bracteatum. Hardy Perennial. Very showy. Red.

Pkt., 5c.

PORTULACA. h. h. A. 1-2-6.

(Rose Moss.) Unrivalled for the brilliancy and delicacy of their colors.

Single Mixed, 5c.; Double Mixed, 10c.

VERY SELECT.

There is nothing in our extensive list of Flower Seeds which is more important than Pansy Seeds, and we spare no trouble or expense to have the very best strains that are to be procured, and we know there is no better Pansy Seed to be had, either in this country or in Europe, than we carry in stock and supply to our customers.

LEWIS & CLARK COLLECTION

OF SIX GRAND PANSIES.

COQUETTE DE POISSY.—Reddish lavender, three maroon blotches on lower petals; novel and distinct. Pkt., 15c.

ALBA PURA.—(Lady-in-White.) A beautiful, new, pure white. Pkt., 15c.

EMPEROR WILLIAM.—Indigo, dark center. Pkt., 10c.

YELLOW GEM.—A lovely, rich, pure yellow. Pkt., 15c.

PRESIDENT CARNOT.—A fine new variety of the Odier type. Pkt., 15c.

VICTORIA. Red Flowered.—The blooms are of good substance and form and deep claret red color. Pkt., 15c.

VERY SPECIAL.—One Pkt. each of the full collection of Six Varieties for 50c.

PANSY PLANTS.—See Plant Department.

PRIMULA.—(Primrose.) The first three varieties named below are hardy, early blooming garden plants, and the others beautiful winter blooming house plants. Their various forms and blending of colors are exceedingly pleasing and effective. They thrive best in a sandy loam and leaf mold.

Polyanthus. Early blooming, dwarf growing plants, valuable for beds. Mixed.....Pkt., 10c.

Vulgaris. Yellow, common English Primrose. Pkt., 10c.

Japanica. (Japanese.) Mixed, all colors.....Pkt., 10c.

Sinensis Fimbriata. Choice fringed varieties.

MixedPkt., 25c.

Alba Magnifica. Large White.....Pkt., 25c.

Rubra. Large Red.....Pkt., 25c.

Double Finest Mixed......Pkt., 50c.

SALVIA.

(Flowering Sage.) Very ornamental; flowers borne in spikes of fiery red or crimson, and continue in bloom in open ground until after severe frosts. Start in heat and transplant into light soil, one to two feet apart. Tender perennials, but bloom the first season; height, two or three feet.

Salvia Splendens. Brilliant scarlet.....Pkt., 10c.

Argentea. Silvery leaves; flowers white....Pkt., 10c.

SWEET PEAS.

VERY SELECT.

FOR YOUR CONVENIENCE we have grouped the different varieties under their colors. We offer you only the CHOICEST and BEST of each color.

Price: All varieties, except where otherwise stated, 5c. per pkg., 10c. per oz., 20c. per $\frac{1}{4}$ lb., 60c. per lb., post-paid.

Six 5c. Pkts., your selection, 25c.; one packet of seed will sow a row 5 feet; 1 oz., 25 feet.

WHITE.

BLANCHE BURPEE.—A large, pure white, very graceful, hooded form.

EMILY HENDERSON.—Good size, blooms early and profusely. Very popular.

SADIE BURPEE.—Pure white, of largest size; hooded form.

YELLOW—Primrose.

GOLDEN GLEAM.—A lovely yellow of beautiful form and good size.

MRS. ECKFORD.—Beautiful shaded primrose yellow; large size; hooded form.

QUEEN VICTORIA.—Light primrose. Good size and very choice.

PINK—Light Shades.

HON. F. BOVERIE.—Standard and wings deep pink, shading to very light pink at the edges. Has a buff effect. Choice.

LOVELY.—Very pink, large size, hooded form. Very attractive and free bloomer.

KATHERINE TRACY.—Soft pink. Very attractive, vigorous grower and good bloomer. Large.

MODESTY.—White, tinted pink, becoming darker at edges.

PRIMA DONNA.—Pure pink. A vigorous grower and free bloomer. One of the finest pinks.

SENSATION.—Standard light pink and buff. Wings white. A free bloomer of the finest type.

STELLA MORSE.—Buff and pink, producing a cream effect.

VENUS.—Light pink and buff. Medium size, hooded form. Very showy and handsome. Early.

PINK—Darker Shades.

GORGEOUS.—Bright rose and orange, intensely bright. Open form, medium size.

LADY MARY CURRIE.—Standard crimson orange, with a tint of lilac at the base of both standards and wings.

ORIENTAL.—Bright orange pink, veined with orange rose. Very pretty. Good size.

ROYAL ROSE.—Pure pink, self-colored, medium size.

RED—Crimson.

BRILLIANT.—Bright crimson. Good size; hooded form.

FIREFLY.—Bright red, self-colored. Medium size; open form.

MRS. DUGDALE.—Crimson rose; very large size; distinct and beautiful.

SALOPIAN.—Pure red, self-colored. The best intense scarlet.

CRIMSON-ROSE—Veined.

FASHION.—Rose, self-colored, medium size, hooded form, distinct.

LORD KENYON.—Magenta rose, veined with rose. Very showy and rich. Good size. Hooded form.

LAVENDER—Mauve.

ADMIRATION.—Pink mauve on light primrose, almost self-colored. Good size, hooded form.

CAPTIVATION.—Standard pure magenta; wings shaded purple. Open form. Very handsome.

COUNTESS OF RADNOR.—A fine lavender, a trifle darker in color than New Countess.

DOROTHY TENNANT.—Rose purple, self-colored, large and fine form.

LADY GRISEL HAMILTON.—Standard mauve; wings lavender, of large size and fine lavender variety.

LADY NINA BALFOUR.—Mauve and lavender on primrose, giving the blossom a pearl-gray tone. Exquisite.

LOTTIE ECKFORD.—Standard white, shaded lilac, edged with blue; wings a little lighter, of large size and very pretty.



Sweet Peas.

SWEET PEAS—Continued.

MAID OF HONOR.—White, shaded light lavender and lilac. Good size, hooded form. Lovely.

NEW COUNTESS.—A handsome lavender of medium size and hooded form.

BLUE.

CAPT. OF BLUES.—Standard bluish purple; wing blue. Hooded form, of good size.

NAVY BLUE.—Indigo violet and navy blue. The whole effect of the bloom is navy blue.

VIOLET-MAROON.

BLACK KNIGHT.—One of the darkest varieties. A deep maroon, shaded black.

DUKE OF CLARENCE.—Dark claret, self-colored; blossom large and of the finest type. Vigorous grower.

OTHELLO.—Very dark maroon, showing veins of almost black. Large size.

STANLEY.—Deep maroon, self-colored, open form.

SHAHZADA.—Deep maroon and purple, veined with black. Very rich. Large size.

STRIPED-VARIEGATED.

AURORA.—Orange rose, striped on white. Large size. Very attractive.

AMERICA.—Crimson scarlet striped on white. The brightest striped variety we offer. Large size.

GRAY FRIAR.—Heliotrope, marbled and dusted on white. Very odd and rich.

JUANITA.—Mauve and lavender striped on white. Medium size, hooded form.

LOTTIE HUTCHINS.—Light primrose striped with light pink. Very pretty and delicate; hooded form.

MRS. JOE CHAMBERLAIN.—Rose, striped on white. Very large and fine, hooded form.

MISS BLANCHE FERRY.—Standard bright carmine rose; wings almost white. Medium size, open form. Very showy and popular.

EXTRA EARLY BLANCHE FERRY.—Same as above, but two weeks earlier.

PINK FRIAR.—White, marbled or dusted with light rose crimson. Pretty effect.

RAMONA.—Light and pink striped on white, large hooded form.

WAWONA.—Lilac striped on white, hooded form.

CUPID, or DWARF SWEET PEAS.

Dwarf in plant only, the blossoms being as large as the tall kinds.

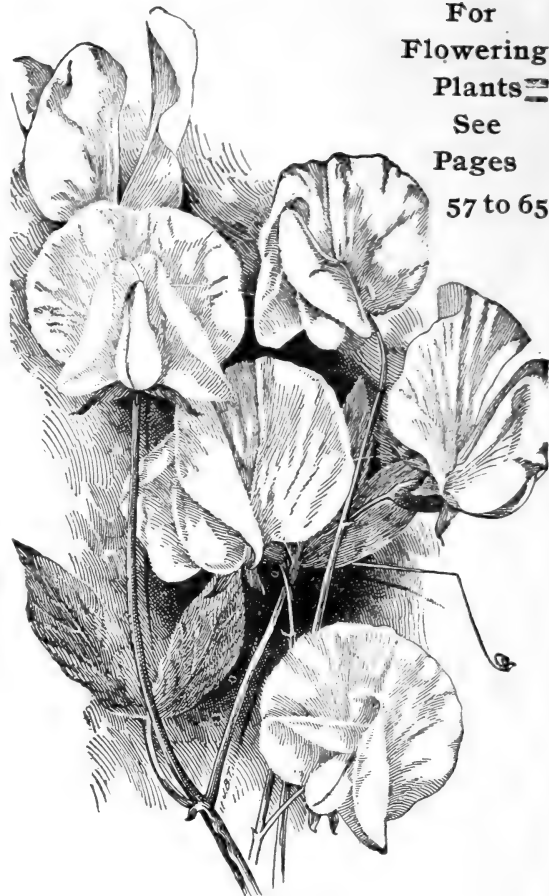
They grow from four to six inches high, and are beautiful grown in pots or planted for borders.

Their fragrant blossoms are borne in clusters of two or three, on long stems above the foliage.

White, Pink, Scarlet, Primrose, Lavender, Maroon or Mixed.

Price: All 5c. per Pkt., 15c. per oz.
1/4 lb., 40c.; lb., 85c.

For
Flowering
Plants—
See
Pages
57 to 65



SWEET PEAS.

SWEET PEAS IN MIXTURES.

EXTRA MIXED.—Contains a very large variety of the old standard sorts. Good value.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 40c.

LARGE FLOWERING MIXED.—This mixture, although not embracing the latest novelties, contains a beautiful assortment of the large flowering kinds.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

LEWIS AND CLARK EXPOSITION Mixture of Sweet Peas.—This is our own mixture, selected from our whole list. It contains the newest and choicest named varieties, mixed in the right proportions. No finer mixture could be made.

1 oz., pkg., 15c.; 2 oz., 25c.; 1/4 lb., 40c.; lb., \$1.00.

PEA, EVERLASTING.—(*Lathyrus latifolius*).—Hardy perennial climber. Flowers similar to Sweet Peas, but not fragrant.

White, pkt., 10c.; Mixed, pkt., 5c.

THE CONSOLIDATION.

Upon taking the Lamberson business we find on hand a large supply of printed matter, especially small seed packets ready to be filled. As these are nice, new packets, we have decided to use them. So if you should receive some, please remember that they are not old stock, but CONTAIN NEW SEEDS.



Scabiosa.



Snapdragon.



Stocks.



Smilax.

SAPONARIA. h. A. 1-2.

Fine. Mixed. Pkt., 5c.

SALPIGLOSSIS. h. h. A. 1.

Produces very showy, funnel shaped flowers of large size. Tall Mixed. Pkt., 5c.

Fine Dwarf Mixed. Pkt., 5c.

SCHIZANTHUS. h. h. A. 4-1.

Mixed. Pkt., 5c.

SCABIOSA. h. A. 1-2.

(Mourning Bride.) Showy border plant, with fine variegated flowers.

Dwarf Double, Mixed. Pkt., 5c.

SMILAX. t. P. 3-6.

(Myrsiphyllum Asparagoides.) Pkt., 10c.

SNAPDRAGON. h. P. 1-2.

(Antirrhinum.) One of the finest free blooming perennials.

Tall, Finest Mixed. Pkt., 5c.

Dwarf, Finest Mixed. Pkt., 5c.

STATICE. 1-4.

Very free flowering.

Annual Varieties, Mixed. Pkt., 5c.

Perennial Varieties, Mixed. Pkt., 5c.

STOCKS. h. A. 1-2.

(German Ten Weeks. Unsurpassed for beauty and fragrance, blooming all summer.

Dwarf, Large Flowering. White, Crimson, Rose,

Light Blue or Mixed. Pkt., 10c.

Emperor, or Perpetual. Large flowering White,

or Mixed. Pkt., 10c.

Winter, or Brompton. Large Flowering White,

or Mixed. Pkt., 10c.

SUNFLOWER. h. A. 1-2.

(Helianthus.) Large, showy plants.

Nanus Foliis Variegatis. Dwarf. with variegated foliage. Pkt., 5c.; oz., 25c.

Globulus Fistulosus, Fl. Pl. Saffron, very double. Pkt., 5c.; oz., 25c.

Multiflora, Fl. Pl. Beautiful, double yellow flowers. Pkt., 5c.; oz., 25c.

Large Russian Single. Pkt., 5c.; oz., 10c.

SWEET WILLIAM. h. P. 1-2.

(Dianthus barbatus.) The colors are very brilliant, ranging from snow-white to darkest crimson and purple.

Single or Double Mixed. Pkt., 5c.

DUMETT'S.

Crimson. Single. Pkt., 10c.

SWEET SULTAN. h. A. 1-2.

(Centaurea.) Pkt., 5c.

SWEET ROCKET. h. P. 1.

(Hesperis.) Free blooming and very fragrant.

White. Pkt., 5c.

THUNBERGIA. h. h. A. 3-1.

Fine Mixed. Pkt., 5c.

VIOLET. h. P. 1-2.

(Viola Odorata.) Exceedingly fragrant. Thrives best in a cool, shady place.

Blue, pkt., 10c.; White, pkt., 10c.

VERBENA. h. h. A. 1-2.

A well known and popular bedding plant, blooming all summer.

Hybrida, Mixed. Pkt., 10c.; ¼ oz., 30c.

Mammoth. Extra fine. Mixed. Pkt., 10c.; ¼ oz., 50c.

Candidissima. White. Pkt., 10c.

Hybrida Defiance. Fiery scarlet. Pkt., 10c.

Striped, Blue. Each. Pkt., 10c.

VINCA. h. A. 1-4.

Mixed. Pkt., 10c.

VISCARIA. h. A. 1-2.

(Rose of Heaven.) Their profuseness of bloom will always rank them among general favorites.

Fine Mixed. Pkt., 5c.

WALL FLOWER. h. h. P. 1-2.

(Cheiranthus cheri.) Produces spikes of beautiful, exceedingly fragrant flowers.

Mixed. Pkt., 5c.

Dark Brown, Yellow. Each. Pkt., 10c.

Finest Double Mixed. Pkt., 10c.

WILD CUCUMBER. See ECHINOYSTIS LOBATA.

VALERIANA. h. B. 1-2.

Fine Mixed. Pkt., 5c.

VIRGINIA STOCK. h. A. 1-2.

A fine, early flowering plant.

Mixed. Pkt., 5c.

XERANTHEMUM. h. A. 7-1-2.

Double Mixed. Pkt., 5c.

ZEAL—Japonica Variegata.

(Ornamental Maize.) Finest Mixed. Pkt., 5c.

All varieties. Pkt., 5c.

Gracillima. Pkt., 5c.

ZINNIA ELEGANS. h. h. A. 1-2.

Of easiest cultivation, and should be in every collection.

Tall Double. Mixed. Pkt., 5c.

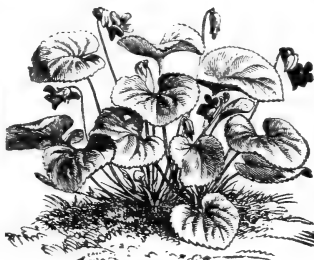
Dwarf Double. Mixed. Pkt., 5c.



Verbena.



Sweet William.



Violet.



Single Wall Flower.

Grass and Clover Seeds.

Prices per single pound include postage. Prices per hundred pounds are only printed so as to give you a general idea of the average selling prices.

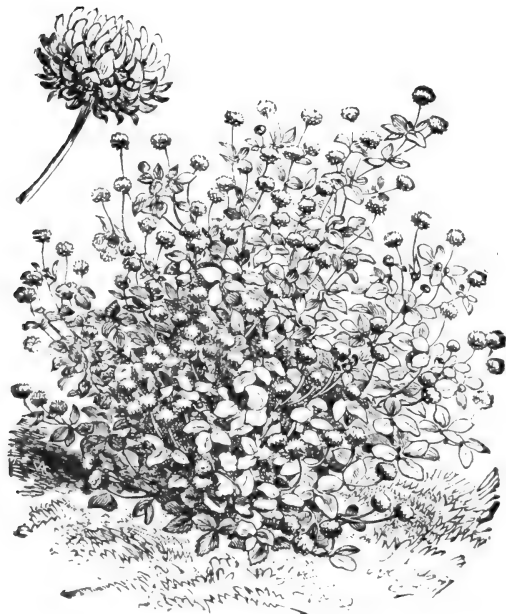
Grass Seed prices are continually changing; we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity, or order what you want at Catalog prices; we guarantee that we will give you full value for the money sent, whether the price be higher or lower. In other words, we will always ship seed to cover the full amount sent to us.

Our Western country is rapidly being settled and the thousands of acres of free range lands that we formerly had are being fenced and put under cultivation.

The farmers and stockraisers should, and are, turning their attention to the raising of more grass, clover, grain and forage plants. There are a great many of these seeds offered by Eastern seedsmen (often under new names) that do not produce profitable crops here. We have prepared for you a list of the kinds that are best adapted to this Coast, and by carefully perusing this and the following pages you will get valuable information that has taken years of study, trial and experimenting to procure.

We also wish to impress on your minds the fact that the seeds we offer you are all carefully grown, harvested and cleaned by experts in this line of work, and you can rely on getting the very best in the different seeds if you send US your orders.

We are equipped with the latest and best facilities for handling the rapidly increasing trade. Without doubt we have sold more Grass and Clover Seeds this past season than any other two or three firms located here.



ALSIKE CLOVER.



ALFALFA, or LUCERNE CLOVER.



WHITE CLOVER.

TURKESTAN ALFALFA.

This new Alfalfa, introduced from Turkestan, has been experimented with more or less for the past few years. In some places it has proven a great success. In general appearance it is very much like our regular Alfalfa. It is claimed that it will produce a luxuriant growth in the driest and hottest sections, without irrigation. It is perfectly hardy and will stand extreme cold in winter without harm. It yields a very heavy and rich crop of hay and makes a permanent pasture.

We have secured a good stock of the pure, genuine seed, which we offer at the following prices:

Per lb., post-paid, 50c.; 100 lbs., \$35.00.

ALFALFA or LUCERNE CLOVER

(MEDICAGO SATIVA).

The immense cattle and sheep interests of the Western States could not exist if it were not for Alfalfa. It is no doubt one of the best fodder plants in the West. It should be cut just before coming into bloom. The hay is especially valuable for dairy cows. As soon as cut it immediately commences to grow, and during the hottest and driest weather, when other grasses are parched and withered, it remains fresh and green and grows as rapidly as ever. On the low lands it is not an unusual thing to harvest five or six crops of hay from the same field in one season without irrigation, and the same result is obtained on high, dry lands where irrigation is resorted to. Notwithstanding its great yield, it does not exhaust the soil, but rather improves it, making barren land fertile and productive. It will not succeed on hard, clayey soils. It sends down a strong tap root, and soils suited to this peculiarity of the plant are best adapted to its complete success. Its roots, in seeking moisture, penetrate to incredible depths.

Alfalfa will grow anywhere from about sea level to 7000 feet elevation. It succeeds best in soil rich in lime, potash and phosphoric acid.

Sow from fifteen to twenty pounds of seed to the acre, and harrow or brush it in well. Seeding thick will produce fine stalks—a desirable feature, either in hay or pasture. The seed should be sown in spring, after danger from freezing the young plants is over, or in the fall, early enough to give it a good stand before frost.

Per lb., post-paid, 27c.; 100 lbs., \$15.00.

CLOVERS.

Alsike, or Swedish Clover.

(*Trifolium Hybridum*.)

A perfectly hardy variety which is rapidly growing in popular favor. It yields large crops of excellent hay, and under favorable conditions may be cut several times during the season. It is also valuable for bees. It is well calculated to resist both drought and excessive moisture. The hay of this variety is greatly preferred by some to that of Red Clover, for the reason that it is generally finer, brighter and not so dusty, making it better for horses. It is perennial and produces a mass of long, fibrous roots, which hold the soil, making it useful for permanent pasture on hill-sides which are liable to wash. When used alone, sow from eight to ten pounds per acre.

Per lb., post-paid, 30c.; 100 lbs., \$17.00.

Red Clover.

(*Trifolium Pratense*.)

The standard Clover for all purposes, either pasture, hay, or for improving and enriching the soil. It is hardy and succeeds well on any good soil. It yields the heaviest crop of any Clover except Alfalfa, and makes superior hay—especially if mixed with Timothy—either for dairy cows for general use. Sow from twelve to fifteen pounds per acre, being careful to get it evenly distributed over the ground.

Per lb., post-paid, 25c.; 100 lbs., \$13.50.

Mammoth Clover.

This variety grows five to six feet high, and is used almost exclusively for plowing under for manure. Sow from twelve to fifteen pounds per acre.

1 lb., post-paid, 25c.; 100 lbs., \$14.00.

White Dutch Clover.

(*Trifolium Repens*.)

A small variety, having a white blossom. It is of a vining nature, spreading rapidly, and will soon cover bare spots if the stand be uneven. It does not attain sufficient height to be profitable for hay, but is superior for pasture, either for cattle or sheep, and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass. If sown alone, use six to eight pounds per acre.

Per lb., post-paid, 40c.; 100 lbs., \$25.00.

Espersette, or Sainfoin.

(*Onobrychis Sativa*.)

A deep rooting perennial legume, extensively cultivated on dry, calcareous soils which are too barren for Clover or Alfalfa. It is rather difficult to establish, as the plants are easily killed when young, but when once rooted will live from ten to twenty-five years. Sow 50 lbs. per acre.

Per lb., post-paid, 30c.; per 100 lbs., \$15.00.



RED CLOVER.

Crimson, or Scarlet Clover.

(*Trifolium Incarnatum*.)

Highly commended for pasture and fertilizing purposes. It is a thrifty annual, growing from twenty to thirty inches high, and has a beautiful, crimson bloom. It germinates quickly, grows rapidly, and stools abundantly. Sow from twelve to fifteen pounds to the acre, and harrow in with a light harrow. Cut for hay when in full bloom.

Per lb., post-paid, 25c.; 100 lbs., \$13.50.

Bokhara, Sweet or Honey Clover.

(*Melilotus Alba*.)

A rapid growing white flowered sort; excellent for bees. Sow ten pounds per acre.

Per lb., post-paid, 35c.; 100 lbs., \$20.00.

EVERY FARMER should have a Broadcast Seed Sower. See page 69.

GRASS SEEDS.

BROMUS INERMIS.

(Russian Forage Grass—Awnless Brome Grass.)

This Bromus, on account of its strong perennial character, and its unusual drouth-restisting powers, is the best grass we have for the semi-arid regions of the Northwest. It will stand the longest drought of all forage plants. Its running roots take a deep and permanent hold upon the land, and it will replace, in a large degree, the fast disappearing Bunch Grasses of Eastern Oregon and Eastern Washington, where it has done well. It grows luxuriantly, is freely eaten in either the dry or green state by cattle, and yields enormously, making the best of hay for horses or cattle. It is a perennial and yields from four to six tons to the acre. Can be sown in the fall or spring. Sow twenty to thirty pounds per acre.

Per lb., post-paid, 30c.; 100 lbs., \$15.00.



BROMUS INERMIS.

100-lb. Prices are
subject to change
without notice.



BROMUS SCHRADERI.

BROMUS SCHRADERI.

(Rescue Grass.)

Also known as *Bromus Unioloides*. It is well adapted to moist, low lands, and gives a large yield of excellent hay in a short period of time, after which it makes green pasture for the balance of the season. The quickness with which it covers the ground and makes pasture or hay after seeding makes it one of the most valuable of grasses. Two or three crops of hay can be cut in a single season.

Per lb., post-paid, 40c.; 100 lbs., \$25.00.

BROMUS BREVIARISTATUS.

This grass makes a good permanent pasture and the best of hay. It produces from one to three crops of hay per season; the first crop being ready to cut early in May. For cattle, it can be cut green; but for horses, let it ripen well. It is very hardy and a heavy yielder; grows well on high or low lands, but yields the heaviest on moderately moist ground.

Per lb., post-paid, 30c.; 100 lbs., \$25.00.

TIMOTHY.

(Phleum Pratense.)

This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the spring or fall, at the rate of twelve pounds per acre, if alone, but less if mixed with other grasses. A bushel weighs 45 pounds.

Per lb., post-paid, 20c.; 100 lbs., \$7.00.

ORCHARD GRASS.

(Dactylis Glomerata.)

One of the most valuable of all the cultivated grasses, blooming with Red Clover, and making with it admirable hay. As a pasture grass it is more productive than any other, and does best under close feeding. Sow twenty-five pounds to the acre.

Per lb., post-paid, 30c.; 100 lbs., \$15.00.

KENTUCKY BLUE GRASS.

(Poa Pratensis.)

One of the best grasses for permanent pasture, furnishing a constant supply of the most nutritious feed during the greater part of the year. It is perennial, and in warm localities, where the ground is kept moist, and it is pastured or frequently cut to prevent the seed from ripening, will continue to grow luxuriantly the entire year. It is also incomparably the best grass known for lawns and parks, and where covered with fine manure every fall, watered well and evenly, and cut frequently, will furnish a handsome, velvety lawn for years, requiring no resowing. For pasture, sow 25 to 30 pounds to the acre, but to secure a fine lawn much heavier seeding is required, and not less than 80 pounds should be sown.

Per lb., post-paid, 30c.; 100 lbs., \$16.00.

BLUE GRASS, CANADA.

(Poa Compressa.)

Differs from the Kentucky variety in its flattened, wiry stem. Because of its creeping root stocks, it forms a fine turf; recommended in all pasture mixture on dry soil; thrives well on clay or hard trodden and poor soil.

Per lb., post-paid, 30c.; 100 lbs., \$15.00.

ENGLISH PERENNIAL RYE GRASS.

(Lolium Perenne.)

A strong growing, hardy perennial grass, noted for its nutritive qualities. Is equally valuable both for grazing and hay, and will succeed on any good, tillable land, if well prepared; makes a fine lawn, and for large grounds and parks is very successful. Does not require the close care that Blue Grass does, and will flourish better under trees and in shady localities. For field crop, sow 30 to 40 pounds to the acre, and if used for lawns, not less than 75 pounds.

Per lb., post-paid, 20c.; 100 lbs., \$9.00.

ITALIAN RYE GRASS.

(Lolium Italicum.)

A quick growing grass, attaining a greater height than English Rye, and is very desirable for meadows or permanent pastures. Thrives best on rich soils that are slightly moist. Sow at the rate of 20 pounds per acre. Grows easily and bears an abundance of foliage that makes the best hay imaginable.

Per lb., post-paid, 25c.; 100 lbs., \$10.00.

MEADOW FESCUE.

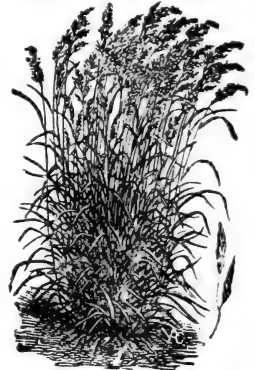
(Festuca Pratensis.)

A perennial variety growing three or four feet high. Its roots deep, thus resisting drought better than most grasses. It succeeds on any ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pastures. Valuable to mix with other kinds. Use 30 pounds per acre when sown alone.

Per lb., post-paid, 25c.; 100 lbs., \$12.00.



Italian Rye Grass.

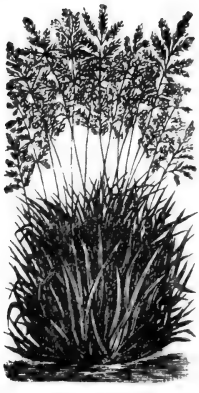


Meadow Fescue, or English Blue Grass.

The use of our
Fertilizer on your
hay field will
double the yield.
See page
81.



Tall Meadow Oat Grass.



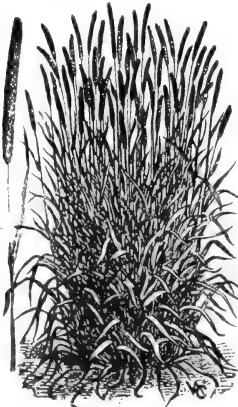
Kentucky Blue Grass.



Orchard Grass.



English Rye Grass.



Timothy.

Write for Special Prices when ready; 100-lb. Prices Subject to Change Without Notice.

RED TOP.

(Agrotis Vulgaris.)

A good perennial grass. Generally sown on permanent pastures. Does well on any soil, but best on moist, and even marshy land. Sow 30 pounds to the acre. Per lb., post-paid, 20c.; 100 lbs., \$8.00.

RED TOP. FANCY CLEAN.

Extra heavy. A very superior grade of Red Top that is free from chaff and light seed. One pound of this is better than three of the common. Sow 12 pounds per acre. Per lb., post-paid, 30c.; 100 lbs., \$15.00.

TALL MEADOW OAT GRASS.

(Avena Elatior.)

Often attains a height of three or four feet by the middle of June. Makes splendid hay and thrives on sandy loam, but makes its best growth where there is some clay. Can be fed as a pasture grass, and will generally bear cutting three times. For mixing with Perennial Rye and Alfalfa for sandy soils it is excellent. Sow about 30 to 40 pounds per acre alone or half that amount if mixed with the above varieties. Per lb., post-paid, 35c.; 100 lbs., \$20.00.

MESQUITE.

(Holcus Lanatus.)

It is usually sown on virgin soil, without cultivation, after the ground has been burned over. Sow about 35 pounds to the acre. Per lb., post-paid, 20c.; 100 lbs., \$9.00.

JOHNSON GRASS.

(Sorghum Halapense.)

A perennial of luxuriant growth. It has strong roots that penetrate to considerable depth, enabling it to withstand drought well. It belongs to the Sorghum family and is sweet and nutritious and much relished by stock. Per lb., post-paid, 35c.; 100 lbs., \$18.00.

BERMUDA GRASS.

(Cynodon Dactylon.)

Suitable only for climates where the winters are not below the freezing point. It stands the hottest and driest season, and for summer pasture is very valuable. Sow 6 pounds per acre. Per lb., post-paid, 90c.

HARD FESCUE.

(Festuca Duriuscula.)

A fine, rather dwarf growing variety, justly noted for its drought-resisting qualities. Prized by some for lawns. Valuable as a pasture for sheep. Sow 20 pounds per acre. Per lb., post-paid, 35c.; 100 lbs., \$20.00.

FLOATING FESCUE.

(Festuca Fluitans.)

A perennial with long, creeping roots and preferring a rich, muddy or alluvial soil. Trout and wild ducks are very fond of the seed and tender shoots. Per lb., post-paid, 45c.

SHEEP'S FESCUE.

(Festuca Ovina.)

Grows freely in high, dry and open pastures. Its chief merit for sheep pasture is that it occupies land where better grasses refuse to grow. Thirty-five pounds to the acre. Per lb., post-paid, 35c.

WATER FESCUE.

(Glyceria Fluitans.)

This grass grows naturally in and beside ditches, pools, rivers and marshes. All stock like it. Per lb., post-paid, 45c.

MEADOW FOXTAIL.

(Alopecurus Pratensis.)

One of the very best for permanent pasture. Stands intense summer heat without burning. Sow 25 pounds to the acre. Per lb., post-paid, 45c.

FOWL MEADOW.

(Or False Red Top.)

It yields well when sown on low, moist land, and stands longer in good condition for cutting than most grasses. It can be mowed almost any time from July to October. Sow 25 pounds to the acre, in the spring or fall. Per lb., post-paid, 40c.; 100 lbs., \$25.00.

Diamond Brand Grass Seeds—Pure and Reliable.



RED TOP.

LAWN GRASS, DIAMOND BRAND.

Fancy Mixed.

More fine lawns in the Northwest have been made from our mixtures than from any other. We use only the choicest, re-cleaned, heavy grass seeds. This mixture of ours will produce a fine, thick, velvety lawn in a few weeks' time, if you prepare the ground properly and sow the seed thickly. Don't buy cheap seed; it only means a poor lawn. Sow our seed at the rate of 1 pound to 20-foot square; 10 to 15 pounds to the average city lot. Per lb., post-paid, 35c.; 100 lbs., \$20.00.

FINE MIXED.

A good, strong growing grass, for lawns, that will give satisfaction. Sow 12 to 15 pounds to an ordinary city lot. Per lb., post-paid, 25c.; 100 lbs., \$14.00.

CREeping BENT GRASS.

(Agrostis Stolonifera.)

Well adapted for sandy pastures, near the coast, and good for pasture on low lands, especially when the bottoms are sandy; also for lawns, as it makes a fine and enduring turf. If sown alone, use 2 bushels per acre. Per lb., post-paid, 40c.; 100 lbs., \$25.00.

RHODE ISLAND BENT GRASS.

(Agrostis Canina.)

This somewhat resembles Red Top. It makes a close sod and is valuable for permanent pastures and meadows. Per lb., post-paid, 40c.; 100 lbs., \$25.00.

ROUGH-STALKED MEADOW GRASS.

(Poa Trivialis.)

A most valuable grass which flourishes in moist, rich soils. Twenty pounds to the acre. Per lb., post-paid, 55c.

SWEET VERNAL.

(Anthoxanthum Odorum.)

Valuable to put in pasture mixtures and lawn grass on account of its earliness and its delightful fragrance when in bloom. Per lb., post-paid, 35c.; 100 lbs., \$20.00.

CRESTED DOG'S TAIL.

(Cynosurus Cristatus.)

A perennial grass with short, narrow leaves, particularly valuable for lawns or pastures on dry, light land. Per lb., post-paid, 55c.; 100 lbs., \$40.00.

RED CANARY GRASS.

(Phalaris Arundinacea.)

This is a strong growing perennial, 2 to 4 feet high. It succeeds best on stiff, wet land and flooded fields, and grows fairly well on dry, sandy soil. When designed for hay it should be cut before flowering. Per lb., post-paid, 85c.

FORAGE, FIELD AND MISCELLANEOUS SEEDS.

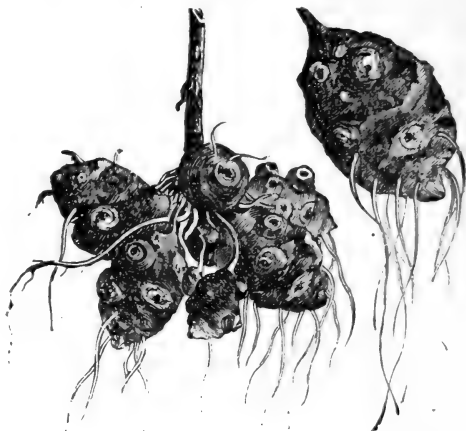
Single pound prices include postage. If ordering by freight or express, deduct 10c. per lb.; 100-lb. prices subject to market changes. Seed to cover amount remitted always sent unless otherwise ordered. Special prices on large quantities.

ARTICHOKE TUBERS.

Planted and cultivated same as potatoes. Of great value for feeding stock. They are the best hog feed known. They are remarkable for their fattening properties, great productiveness (over one thousand bushels having been raised on one acre) and ease with which they can be grown. They need not be dug. If the hogs are turned in on them they will help themselves by rooting. One acre will keep from twenty to thirty hogs in fine condition from October until April, except when the ground is frozen too hard for them to root. They are also said to be a preventive of cholera and other hog diseases, and they are also highly recommended for milch cows, increasing the yield of milk and at the same time improving their condition. Plant in April or May. 2 bushels to the acre.

Per lb., post-paid, 15c.; 100 lbs., \$1.75.

If wanted in larger quantities write for special prices.



ARTICHOKE TUBERS.

Australian Salt Bush.

(Atriplex Semibaccatum.)

A valuable forage plant for alkali soils and all regions subject to drought.

Per oz., 30c.; 1/2 lb., \$1.00; 1 lb., \$3.00.

BUCKWHEAT.

Common.

Per lb., post-paid, 15c.; 100 lbs., \$2.75.

SILVER HULL.

A very good and popular variety. Grain is of a light gray color, rounder than the common; has a thin husk; matures earlier and yields heavy. A good milling variety.

Per lb., post-paid, 15c.; 100 lbs., \$3.00.

JAPANESE.

This variety excels all others; yield much heavier; ripens one week to ten days earlier, stands up better and makes better flour. Excellent for bee pasture.

Per lb., post-paid, 15c.; 100 lbs., \$3.25.



JAPANESE BUCKWHEAT.

Broom Corn.

IMPROVED EVERGREEN.

An improvement on the common Evergreen. Does not grow as tall as the old variety. The brush is fine and of light green tint.

Per lb., post-paid, 25c.; 100 lbs., \$8.50.

BIRD SEED.

Not for Planting.

PORTLAND SEED CO'S BEST MIXED.... Per lb., 20c.
CANARY—Best Re-cleaned.... Per lb., post-paid, 20c.
HEMP Per lb., post-paid, 20c.
MILLET Per lb., post-paid, 20c.
RAPE Per lb., post-paid, 20c.
CUTTLE BONE—Large Bone..... Post-paid, 2 for 5c.

BARLEY.

Beardless.

The earliest barley known. The straw is about the height of the common barley, but better, and will stand up on any land; with good season and land has produced 80 bushels per acre. Sow as early as you can; frost does not hurt it. Many farmers will not grow barley on account of the long, harsh beards which are so disagreeable in threshing, although it is a profitable crop. This is beardless, and as easy to grow and handle as oats. It is becoming more popular each season.

Per lb., post-paid, 15c.; 100 lbs., \$2.25.

CHEVALIER BEARDLESS.

This is claimed to be a great improvement on the regular Beardless Barley.

It is very early, free from rust, and an enormous yielder. It stands up well and seems to be adapted to all kinds of soil. The heads are perfectly free from those troublesome beards, and are always filled with good, plump, heavy grains that have a very thin hull. It is a decided improvement, and all barley growers should secure a small supply of seed, at least for a start.

Per lb., post-paid, 20c.; 50 lbs., \$2.00; 100 lbs., \$3.50.

BARLEY FOR SEED.

Per lb., post-paid, 15c.; 100 lbs., market price.

CORN WHEAT, or GERMAN ROGGEN.

This new cereals has been gaining in popularity very rapidly the last few seasons. It is claimed that it will out-yield corn and double the yield of wheat. The kernel is hard and when ground it makes the same kind of meal as corn, and has superior fattening qualities to either corn or wheat. It yields 50 to 100 bushels of grain which is excellent for fattening hogs or cattle. It takes the place of rye for a green food, yielding nearly twice as much per acre. Every farmer should give this a trial. Prepare your ground the same as you would for oats or wheat, and sow in the spring or fall, at the rate of 75 to 100 pounds to the acre.

Price of seed: Per lb., post-paid, 20c.; By freight or express, 10 lbs., 75c.; 100 lbs., \$5.00.

CHEAT SEED.

Cheat makes a good crop on low lands. For hay it should be cut before it gets too ripe.

Per lb., post-paid, 15c.; 100 lbs., \$2.00.

FLAX SEED.

Re-cleaned, for planting.

Per lb., post-paid, 20c.; 100 lbs., \$5.50.

Flax for other purposes. Per lb., 20c.; 100 lbs., \$4.50.

Ground Flax, for medicinal uses. Per lb., 25c.

Flax Seed Meal, for feeding purposes. 100 lbs., \$1.60.

Special Prices in quantity.

FIELD PEAS.

A very profitable crop; can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog food and are quite fattening. Sow, if alone, 120 pounds to the acre; if with other grain, 60 pounds.

WHITE CANADIAN.

A leading kind; seed almost white; a heavy crop-per. Per lb., post-paid, 15c.; 100 lbs., \$3.00.

BLUE PRUSSIAN.

Very much like the above, except in color. This variety is often sold for soup peas.

Per lb., post-paid, 15c.; 100 lbs., \$3.25.

GREEN SCOTCH.

A very handsome, smooth, green pea; a profitable variety. Per lb., post-paid, 15c.; 100 lbs., \$4.50.

SWISS.

A three-cornered pea; excellent for cooking purposes. Vines small.

Per lb., post-paid, 20c.; 100 lbs., \$4.75.

COW PEA.

Most desirable for enriching the soil and for furnishing a large crop of nutritious forage. These so-called "Cow Peas" gather quantities of nitrogen from the air, a portion of which is conveyed to the soil by the roots, but a much larger amount can be stored in the soil for fertilizing by allowing the vines to die down and plowing them under. The vines may be cut either for feeding green or can be cured like clover for winter use. Sow 2 bushels per acre.

EXTRA EARLY BLACK-EYED.

Matures its crop two or three weeks ahead of the ordinary. Per lb., post-paid, 20c.; 100 lbs., \$6.00.

WHIP-POOR-WILL.

A very early maturing variety of upright or bush growth. The seeds may be gathered and the plants harvested more readily than with the running type of growth. Per lb., post-paid, 20c.; 100 lbs., \$7.00.

Idaho Pea, or Coffee Berry.

A forage plant, valuable for semi-arid lands. Yields excellent crops of feed for horses, cattle, sheep and poultry. The peas, when nicely browned and ground, make an excellent beverage.

Per lb., post-paid, 25c.; 100 lbs., \$6.00.

KAFFIR CORN.

An excellent fodder plant, yielding a large crop of fodder during a season. Grows four to five feet high; upright stalk, with numerous large leaves. Greatly relished by cattle and horses. The seed crop is also heavy, sometimes yielding 60 bushels to the acre. It does best sown in drills three feet apart, using six to eight pounds of seed per acre.

Per lb., post-paid, 25c.; 100 lbs., \$6.00.

Lentils.

Succeed best in dry, sandy soil. A legumious annual, the seeds of which are valuable for pigeons, and are largely used for soups. The leafy stalks make good forage.

Per lb., post-paid, 20c.; 100 lbs., \$5.00.

Lathyrus Sylvestris.

Also called Flat Peas. A great forage plant for sandy, dry soil, as the roots often grow down twenty to thirty feet.

Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

100-lb. prices subject to market changes. In large quantities write for special prices.



MILLET.

MILLETS.

Sow 12 lbs. for seed or 20 lbs. for hay per acre.

GERMAN, or GOLDEN

(Panicum Germanicum var.)

An improved variety, yielding a larger crop of seed than the Common Millet. It is also taller than the Common, and yields a heavier crop of hay.

Per lb., post-paid, 20c.; 100 lbs., \$4.50.

HUNGARIAN.

(Panicum Germanicum var.)

A dwarf annual Millet. It is finer than the Common German Millets, but produces a closer stand and yields almost as much per acre as the taller varieties. Superior for hay.

Per lb., post-paid, 20c.; 100 lbs., \$4.75.

OREGON GOLDEN

An improved variety, medium early, growing from three to five feet high. The heads are closely condensed, though the spikes are very numerous. The seeds are contained in rough, bristly sheaths, and are round, golden yellow and beautiful in appearance.

Per lb., post-paid, 20c.; 100 lbs., \$5.00.

NEW SIBERIAN.

A new and wonderfully productive forage plant from Russia, which has given excellent results in the United States. It is extremely hardy and about two weeks earlier than the German Millet, growing about four feet in height. Its stooing properties are remarkable, as high as 41 stalks having been grown from one seed. Hay and fodder are very nutritious and much liked by all kinds of stock. Sow in April, May or June, one peck to the acre.

Per lb., post-paid, 20c.; 100 lbs., \$5.00.

COMMON.

A variety growing from three to four feet high, having rather broad blades and strong stalks. For a seed crop sow fifteen pounds per acre; for hay and pasture use thirty pounds.

Per lb., post-paid, 25c.; 100 lbs., \$4.25.

Valuable Books on Farming and Gardening will be found in our Book List. See Index. You will never regret investing a few dollars in these books.

Seed Rye.

We always aim to have a choice stock of re-cleaned Seed Rye.

Per lb., post-paid, 15c.; 100 lbs., market price.

SUNFLOWER.**MAMMOTH RUSSIAN.**

The largest and most productive variety. It makes one of the very best of foods for poultry.

Post-paid, ¼ lb., 10c.; 1 lb., 20c.

Sacaline.

Pkt., 10c.; 1 oz., 40c.; ¼ lb., \$1.25.

Sugar Cane.**EARLY AMBER.**

The high value of Northern grown Sugar Cane for fodder and ensilage is becoming rapidly known. It may be made to furnish the principal food for cattle and horses from August until the following spring. When fed down young as a pasture it grows rapidly again. It also withstands severe drought with the best of this kind of plants. As a fodder and for winter feed it is one of the most economical. The Early Amber is the best variety for sugar, and it matures quickly.

Per lb., post-paid, 25c.; 100 lbs., \$7.00.

SEED OATS

Shadeland Wonder.

A PRIZE WINNER.

Will yield 100 to 200 bushels per acre.

This grand new Side Oat is now offered to our farmers and oat growers for the first time. Let us mention a few points in its favor: It is the earliest oat in cultivation, an extraordinary yielder and excellent stooler; the straw is stiff and stands up well; it has a large, white, heavy kernel covered with a very thin hull, making it the king of all milling oats. Awarded first prize at the Oregon State Fair, 1902.

Here is what the originator writes:

History of the Shadeland Wonder Side Oat.

"Some ten years ago I was desirous of procuring, if possible, a better variety of oat than was usually grown in Oregon. I therefore procured ten new varieties from reliable seedsmen in the Eastern States, and sowed them in separate plats. I noted carefully their habit of growing, stooling, ripening, yield, etc. One variety proved far superior to anything I had ever grown, and outyielded all the other nine. In some cases the yield was more than double. I saved the seed from this grand oat, and by careful selection and cultivation have improved it until it is now without a doubt the **King of all Oats.**"

These Oats have been awarded first premium every time exhibited. The grain is short and plump, with a thin hull, making it an excellent milling oat. Doubtless Shadeland Wonder Oat is the greatest oat in cultivation.

PRICES.—The original seed stock of this oat cost \$1.00 per pound. However, we are not going to ask you to pay that much, but offer them at 30c per pound, or 4 pounds for \$1.00, post-paid. By express or freight, 60c. per peck; \$1.00 per half-bushel; \$1.50 per bushel; three bushels, \$4.00; six bushels, \$7.00.

Clydesdale Oats.

This new variety of oats was recently imported from Scotland. When once introduced so that it is better known, we believe it will prove the most desirable oat of our branching out varieties. The straw is stiff and a free grower; the grain is large and heavy, with thin hull. The grain won first premium at the Oregon State Fair for "Oats of any kind" this year, and was much admired. This is quite an early variety and will ripen in about 90 days; will do well even if sown late. It is a heavy yielder and a strictly first-class oat. Our stock is limited this season, so order early.

Per lb., 25c.; 5 lbs., \$1.00, post-paid. By freight or express, peck, 50c.; bushel, \$1.50; 3 bushels, \$3.75; 6 bushels, \$6.50.

This halftone cut, made from a photograph, shows one single head of Shadeland Wonder Oats. Note the large number of oats to the head. The cut is reduced to about one-half.

WARNING.—Remember, we have the only true stock of Shadeland Wonder. If this oat is offered to you by other firms, you may be sure it is not the genuine stock unless it bears our Diamond Trade Mark. Such oats as Oregon Wonder, Oregon Side Oats, etc., are only substitutes. Buy direct from us and be protected.

Formaldehyde.

FULL STRENGTH.

A Sure Preventive for Smut in Grain.

This was proven at the Experiment Station; likewise the formula was sent to several farmers to report the result, and all claimed a success last spring.

Formaldehyde will be of great benefit to the farmer. What is it? Well, it is a clear chemical, resembling water, but it has a peculiar odor. It is sold by the pound (pint). One pound is sufficient to treat 40 to 50 bushels of oats. One reliable oat grower says:

"The way I treated my oats was as follows: I poured about 20 bushels of oats on the barn floor; then I poured one-half pound of the Formaldehyde in a five-gallon can of water and sprinkled it over the oats, turning them twice with a scoop shovel, and allowed them to remain 12 to 24 hours, then spread them out to dry."

Oats thus treated will be perfectly free from smut.

Price, per pound can, 75c. Sent by express or freight only; cannot be mailed.

Well Known Oats.

In addition to above named new oats, we always aim to have a selected, re-cleaned stock of some or all of the following varieties:

American Banner, Shoshone, Mortgage Lifter, Lincoln, New Zealand, Welcome and Gray Oats.

These oats we aim to sell at about the market price for No. 1 Clean Seed Oats. When ready to buy, write us for prices.

The country is flooded with poor Seed Oats that are hardly fit to plant, and yield only 20 to 30 bushels of inferior grain per acre. It is better to sell these oats for feed and sow improved varieties that will yield two or three times as much. New Seed Oats will cost you a few dollars more at the start, but the increase in yield will make up the difference and leave you a handsome profit. Try it this season and see for yourself.

POTATOES For Seed.

Kindly mention second choice, in case we are out of any variety.



EXTRA EARLY BOVEE.

EARLY MAINE.

EARLY SUNRISE.

The new improved potatoes we offer are all grown from stock furnished by us and are carefully selected. For money-making, heavy yielders, select from our list.

Potato Eyes by Mail.

These are carefully cut out and packed, and we warrant them to arrive in good condition for growing, no matter how far away. In this way our customers can get a start of our NEW IMPROVED VARIETIES AT LITTLE EXPENSE, as we pay postage. Orders booked now for later delivery.

Early Sunrise.

Earlier than the Early Rose. Skin a very light pink. The potatoes cook very dry and mealy. One of the best and most popular extra early potato grown.

25 Eyes, post-paid, 20c.; per Peck, 60c.; Half-bushel, \$1.00; Bushel, \$1.50.

Early Rose.

Early Rose is a standard early potato, well and favorably known. Choice selected seed.

25 Eyes, post-paid, 20c.; per Peck, 50c.; Half-bushel, 75c.; Bushel, \$1.25.

New Extra Early Bovee.

In our trials the past three seasons, we have found the Bovee to be one of the earliest potatoes grown. It is earlier than Early Ohio and uncommonly prolific for such an early variety. The vine is dwarf and stocky, and the tubers grow remarkably close, all bunched together in the hill, close up to the vine, sizing up to a remarkable size more evenly than any potato we ever saw; none too large or too small. The Bovee has been tested by nearly all the agricultural stations, and there has been but one verdict from all: "The best extra early potato ever grown." Color of skin, white.

25 Eyes, post-paid, 25c.; per Peck, 75c.; Half-bushel, \$1.25; Bushel, \$2.00.

Early Maine.

For an extra early, extra heavy crop of choice potatoes, plant the Early Maine. This handsome new potato is almost round; the skin is a deep pink or rose; cooking quality cannot be beat, and for a large and sure crop of extra early, smooth, nice sized tubers it is a record breaker. Pronounced by our potato grower to be his choice of all the early varieties. Stock limited.

25 Eyes, post-paid, 25c.; per Peck, 75c.; Half-bushel, \$1.25; Bushel, \$2.00.

For Late, or Main Crop. The Money Maker.

A long, handsome, well-shaped white potato; eyes nearly even with the surface. The tubers are occasionally flattened, and it is not uncommon to have them eight inches and upwards in length. The eating qualities are perfect and it is a tremendous yielder. It belongs to the Burbank, White Star and Monroe class, but will outyield any of these two to one. Vine heavy and rank; drought proof. One hundred and fifty-seven bushels was raised from one peck in Rensselaer county, N. Y. We now offer at reduced prices this wonderful money-maker potato, which after several years of careful testing has proved itself superior to all other late potatoes.

25 Eyes, post-paid, 20c.; per Peck, 60c.; Half-bushel, \$1.00; Bushel, \$1.50.

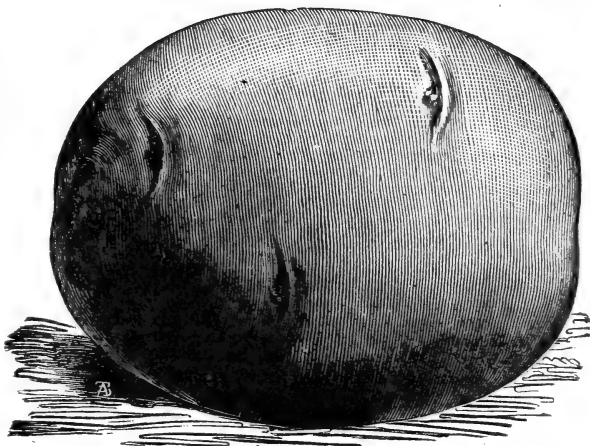
Uncle Sam.

A large, handsome potato; very fine flavor and cooks up white, dry and floury. It is a strong, healthy grower; free from disease, blight, scab or rot. Will outyield other varieties two to one. One of the best potatoes for loam or sandy soil.

Uncle Sam was first placed on the market as a novelty, about five years ago, and since its introduction has made many firm friends.

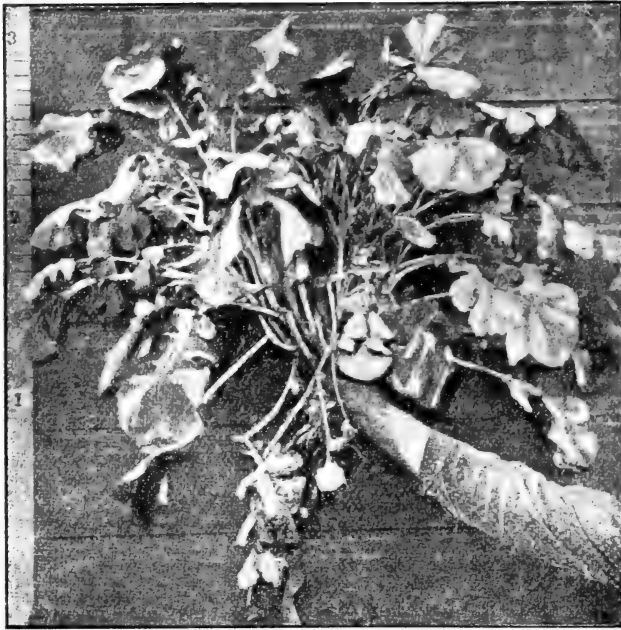
25 Eyes, post-paid, 20c.; per Peck, 60c.; Half-bushel, \$1.00; Bushel, \$1.50.

DOUBLE YOUR POTATO CROP BY USING OUR FERTILIZERS. SEE PAGE 81.



UNCLE SAM.

We can most always furnish any of the standard or well known varieties. If you want some kind not listed write us and we will be glad to get them for you, if they are to be had in the Portland market.



ONE STALK DWARF ESSEX RAPE.

SEED WHEAT.**BLUE STEM.**

A remarkable, semi-hard Spring Wheat, yielding large crops, free from rust. The millers here pay more for it than for any other sort. It is fully equal to the old Fife Wheat, and yields a very much larger crop. It is now the main crop in the Northwestern States, and the great milling kings use it for their leading grade flour. It has been the most reliable variety year after year, yielding a good crop when other kinds fail.

Per lb., post-paid, 15c.; peck, 40c.; bushel, \$1.00.

As we go to press Seed Grains are advancing in price and we are unable to make close prices on the staple varieties. When ready to buy, write us for prices and quantity wanted.

WILD RICE.

(Zizania Aquatica.)

A valuable forage plant; also furnishes food for wild fowl, ducks, geese, etc. Seed can be sown on the borders of lakes, ponds, small streams, and grows very rapidly in one to four feet of water, attracting all of these wild birds from September on. It also purifies the water and affords a refuge for the small fry from the large fish.

Per lb., post-paid, 35c.

SPRING VETCHES, or TARES.

(Vicia Sativa.)

One of the best forage plants that can be grown on the Pacific Coast. Often called Fall Vetches. This is a species of the pea, and is grown very extensively in Western Oregon and Washington, especially in the Willamette Valley and on the Oregon Coast. It furnishes an abundance of excellent feed, either green or dried. The seed should be mixed with an equal weight of some variety of wheat, oats or rye having a stiff straw, and the mixture sown at the rate of two bushels per acre. Weight, 70 lbs. per bushel. Sow in September, October, April or May.

Per lb., post-paid, 15c.; 100 lbs., \$4.00.

SAND, or WINTER VETCHES.

(Vicia Villosa.)

This variety thrives on poor, arid, sandy soils. It is sown either in the fall or spring, and is generally mixed with rye, which serves to support the plants. It grows to a height of three or four feet, and can be cut twice; first, as soon as the bloom appears, and afterward for seed. The plant is perfectly hardy and makes a very nutritious food.

Per lb., post-paid, 25c.; 100 lbs., \$10.

NOTE.—In ordering Vetches, be careful to state plainly which variety you want, as they are both sown in the fall or winter in Oregon.

SOJA BEAN.

A very valuable fodder plant, either for feeding green or for the silo. It is a rich food, and is unsurpassed for forming flesh. Like clover, it improves the soil by drawing its nitrogen from the air. Very productive.

Per lb., post-paid, 25c.; 100 lbs., \$9.00.

Single Pound Prices include postage; 100 lbs. subject to market changes.

RAPE.**DWARF ESSEX.****TRUE, PURE IMPORTED SEEDS.**

One of the best forage plants for the sheep growers of America. It is highly recommended by Professor Shaw, of the Minnesota Experiment Station, as well as many other leading authorities on stock feeding. It has yielded ten tons of green forage per acre, and has twice the feeding value of green clover. Sheep, swine, cattle and poultry eat it readily, but it is particularly desirable for sheep on account of its fattening qualities. Rape will do well on almost any soil. Very valuable for ploughing under as green manure. Sheep or lambs can be turned into it within six to eight weeks after sowing. Prepare the ground as for turnips, and sow any time from May till September; or plant it with grain. Sow, per acre, four pounds, in drills; or, if broadcast, 8 pounds.

Per lb., post-paid, 25c.; 10 lbs., \$1.00;

100 lbs., \$9.00.

SPELTZ.

A comparatively new grain of great value. It yields from 50 to 100 bushels of rich grain per acre, and makes four to six tons of good hay. It will grow well and produce immense crops on poor soil. Dry weather seems to have no bad effect upon it.

After the grain is threshed out the straw makes good hay, as it contains an oily substance which makes it very fattening and much relished by all kinds of stock. The grain has a hull something like barley. The great secret of Speltz is its superior stooling qualities, its strength to resist drought and the elements, and its rich food and hay value. Sow in the spring, the same as wheat, at the rate of 75 to 100 lbs. to the acre. Cut when the grain is past the middle stages of milk, when it will make splendid grain and lots of rich straw hay. Thresh like wheat, only not so closely. The hull and kernel can be fed whole, rolled like barley, or ground.

Price, per lb., 15c.; 50 lbs., \$2.00; 100 lbs., \$3.50.



VETCHES.

PLANT DEPARTMENT.

OREGON GROWN PLANTS

Our Plant trade has grown very rapidly in the past few years. Why? Because we take great pains and care in the growing, selecting, packing and shipping of all plants. Our orders are filled promptly with large, strong, well rooted plants that will grow and produce lovely flowers the first season.

There is no danger of our plants arriving at their destination in a dried or decayed state, which often happens to plants brought from the East, after an anxious customer waits several weeks for them.

You can get plants for half what we list ours at, but please remember that they will not be nearly half so large and strong.

ROSES.

The plants that we send by mail, post-paid, are grown in 3-inch pots. They are healthy and vigorous and have an abundance of roots. These plants are far superior to the little, puny plants raised in hot-houses and offered at ridiculously low prices by dealers in the East. Our stock for this season is selected with greater care than ever, and our plants are unusually fine. These roses will all bloom profusely the first season, except some of the Climbers and Hybrid perpetual varieties, which generally do not bloom much until the second year.

OUR TWO-YEAR-OLD ROSES.

These Roses have all been grown in the open ground, and are large, well-branched bushes, 18 to 24 inches in height, according to variety, and will soon produce flowers. **THEY ARE TOO LARGE TO SEND BY MAIL. AND ARE SENT BY EXPRESS AT BUYER'S EXPENSE.** Order any time from December to May.

PLANTS BY MAIL.

We send all Plants securely packed, post-paid, by mail, without extra charge, except where stated to the contrary.

SEVEN GRAND NEW VARIETIES OF EVER-BLOOMING ROSES

One Size Only. Price, 20c. Each; Set of Seven Sorts, \$1.20.

ADMIRAL DEWEY.

A fine new hybrid tea rose of largest size and sterling merit. The ground color is light flesh tint, almost white, suffused with a beautiful blush, deepening to a rosy blush in the center.

FRANCES E. WILLARD.

A magnificent new white variety, pure in color, full and perfect in form.

CORONET.

Beautiful free flowering hybrid tea rose, of immense proportions. Color, rich carmine, lightening to clear pink as the flower opens. Strong grower and very hardy. Finely scented.

PRINCESS OF NAPLES.

Color an indescribable satiny pink, shaded silver-rose—**one of the warmest, deepest, richest pinks we have ever seen.**

SUNRISE.

A beautiful new English variety of a high order of merit. Buds a beautiful mingling of scarlet and yellow, changing as the flower opens to orange and copper color. Flowers of large size, double and tea-scented.

SOUV. DE CATHERINE GUILLOT.

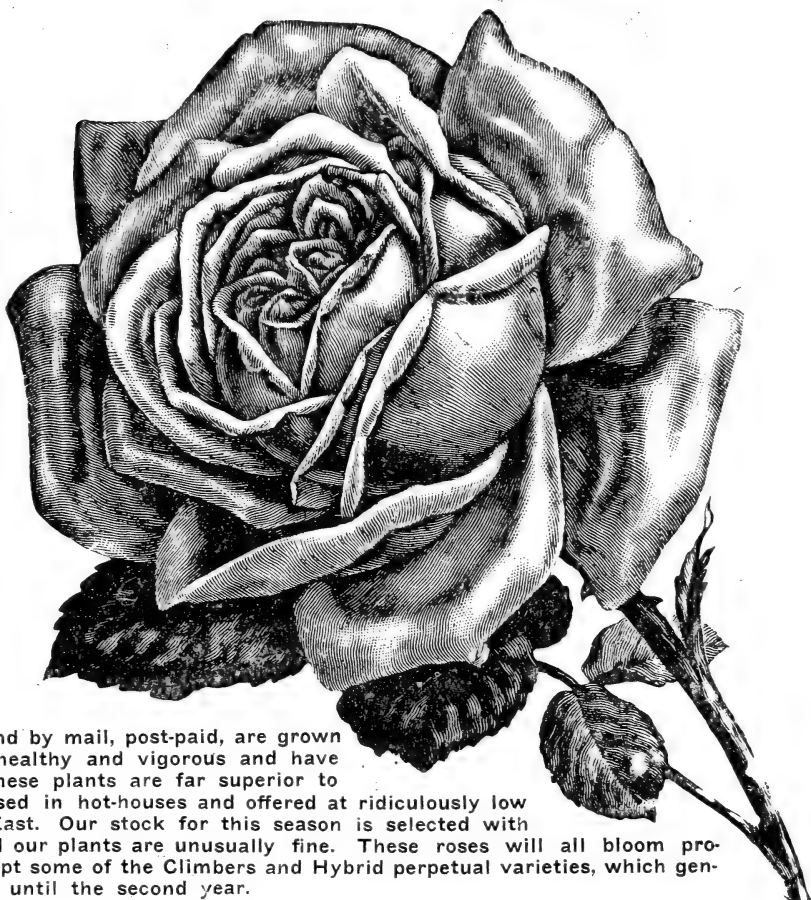
Color, coppery carmine; center shaded orange. Flowers large, full, finely shaped and very sweet. Vigorous in growth and a free bloomer.

VIRGINIA R. COXE.

Color, fiery crimson, with a dark velvety sheen; very fragrant. The freest blooming rose in existence.

NEVER BOUGHT NICER PLANTS.

"The roses and plants I sent for, just received, and many thanks for the same. I must say they are the finest and came in the best condition of any I ever received, and I get plants from all over the States. I can't tell you how pleased I am with them."—MRS. F. H. KANE, Pocatello, Idaho.



ROSES—Continued.



FOUR GRAND NEW HYBRID TEA ROSES

One Size Only. Price, 25c. Each; Set of Four, 80c.

HELEN GOULD.

An elegant new variety of the popular Hybrid Tea class. Flowers very large and full, produced in wonderful profusion. Color, bright, glowing carmine of a most beautiful shade.

LIBERTY.

Color, rich, fiery ruby, shaded deep crimson. Fragrance exquisite. Without doubt the finest ever-blooming crimson rose in existence.

WINNIE DAVIS.

A fine new American pedigreed rose. Color, rich apricot pink, shaded to flesh at base of petals. Beautifully formed buds and flowers. Vigorous and robust habit; handsome, leathery foliage, on fine stout stems.

WHITE LADY.

A startling new variety, one of the handsomest and most effective, and very distinct. Flowers very large, of magnolia-like substance, borne freely on stiff stems. Color, pure white, delicately flushed with pale pink.

ROYAL COLLECTION OF CHOICE NEW ROSES.

Price, Post-paid, 15c.; Set of Ten, \$1.25; 2-year-old Plants, 40c. Each.

BELLE SIEBRECHT.

A true, solid pink of the richest shade; a rare color. The flowers are sweetly perfumed and large, beautifully formed, and of that long, tapering shape, with high center; and when half blown the petals reflex in a graceful manner.

COMTESSE DE FRIGNEUSE.

In color charming; in freedom of bloom second to none. The color is a deep, golden yellow, with a softer shade inside of petals; ranks next to the Marechal Neil as a producer of very large yellow flowers.

KAISERIN AUGUSTA VICTORIA.

Color, pure white. We have no hesitancy in saying that this rose is unequaled by any other variety of its color. A grand garden rose on account of its vigorous growth and hardiness.

MADAME CAROLINE TESTOUT.

A grand new rose of the La France type, but with flowers larger and finer. Color, bright satiny pink; very fragrant and free in bloom.

MADAME WAGRAM.

A rampant grower, with very large, full flowers of a magnificent satin, rose color; can be highly recommended for bedding purposes. Extra fine.

MAMAN COCHET.

This is one of the most beautiful new Tea Roses that has been introduced in years. The color is a deep, rosy pink, the inner side of petals silvery rose; makes charming bunches of long-stemmed flowers when cut.

PRINCESS BONNIE.

Outer petals are a rich, solid crimson, more vivid than "Jack," while the inner side of the center ones at the base is streaked with white.

SUNSET.

This grand rose is a favorite wherever known. The color is a rich, golden amber, or old gold, elegantly shaded, and buds are extra large, full, finely formed and deliciously perfumed.

VISCOUNTESS FOLKSTONE.

Flowers borne on strong stems, with thick foliage; color, delicately tinted flesh, almost white, with beautiful satin finish.

WHITE MAMAN COCHET.

The name describes this new rose—pure white, grand substance, immense size, exquisitely fragrant and a free bloomer. Buds long and pointed, keeping a long time when cut.

Gaiety Collection Hybrid Perpetual Roses.

Price, Post-paid, 15c.; Set of Twelve, \$1.00; 2-year-old Plants, 35c. Each.

BARON DE BONSTETTIN.

Splendid, large flowers, very double and full; color, rich dark red, passing to deep, velvety maroon.

CAPTAIN CHRISTY.

Color, a lovely shade of pale peach, deepening at the center to a rosy crimson; flowers very large, sweet and exquisitely beautiful.

COQUETTE DES ALPS.

A lovely, pure white rose; large, full, finely formed flowers, borne in great profusion; a very desirable variety.

GLOIRE LYONAISE.

Color, chamoise yellow, deepest at the center, passing to creamy white; large, full, sweet and very distinct.

GENERAL JACQUEMINOT.

Bright, shining crimson, very rich and velvety; exceedingly brilliant and handsome; makes magnificent buds, and is highly esteemed as one of the best and most desirable for open ground.

LOUIS VAN HOUTTE.

Brilliant vinous crimson; large, full and fragrant; an excellent sort.

MARIE BAUMAN.

An excellent rose; very full and fragrant; color, rich ruby red, changing to lovely scarlet maroon; very beautiful.

MAGNA CHARTA.

Pink, suffused with carmine; full, globular flowers; very large and double; one of the very finest.

MRS. JOHN LAING.

Very free flowering, commencing to bloom early in the season and continuing to bloom profusely until late autumn; color, a soft, delicate pink with a satiny tinge.

PAUL NEYRON.

Deep, shining rose, double and handsomely formed; blooms freely and is unusually strong and vigorous; the largest variety in existence and one of the most desirable for the garden.

ULRICH BRUNNER.

This is really a magnificent rose; extra large, bold flowers, full and globular; petals large and of a good substance; color, rich, glowing crimson, elegantly flamed with scarlet; a good grower and free bloomer; one of the best for forcing, 15 cents each.

VICK'S CAPRICE.

Flowers very large; ground color soft, satiny pink, distinctly striped and dashed with white and carmine. A novelty of great merit.

"The plants arrived in fine condition. I am very much pleased with the filling of the order. All are good, vigorous plants."—MRS. J. H. YOUNG, Pendleton, Ore.

ROSES—Continued.

EXPOSITION COLLECTION OF EVER-BLOOMING ROSES.

Price, Post-paid, 10c. Each; Set of Fourteen Sorts, \$1.20; Two-Year-Old Plants, 35c. Each

BRIDESMAID.

A fine, clear dark pink, the counterpart of Catherine Mermet in size and shape of flowers and habit of growth, but much deeper in color and vastly more beautiful.

BON SILENE.

The buds are very handsome and produced in great profusion. Color, dark, rosy carmine. A general favorite.

DUCHESS OF BRABANT.

Color, a soft, rosy flesh, changing to deep rose, shaded amber and salmon; delightful tea scent; beautiful buds and flowers. A rose having every desirable quality.

LA FRANCE.

Perhaps no rose is better known or more highly valued than La France. Both flowers and buds are of grand size. Color, a silvery rose, changing to pink. A general favorite, and the sweetest of all roses.

MADAME FRANCISCA KRUGER.

The striking color of this handsome rose places it at the front as a bud-producer in the open ground. It is closely allied to Catherine Mermet in everything save color, which is deeply shaded coppery yellow. One of the finest roses in existence.

MADAME LAMBARD.

Extra large, full flowers; very double and sweet; color, a beautiful shade of rosy bronze, passing to salmon and fawn, shaded with carmine; an elegant rose.

MARIE GUILLOT.

A splendid rose, first-class in every respect. Color, pure, snow-white, sometimes faintly tinged pale yellow.

METEOR.

Remarkably rich dark, velvety crimson, with no tinge of purple to mar its beauty; curving. It is a vigorous, bushy grower with healthy, bright foliage of the deepest green.

PAPA GONTIER.

Large and semi-double; a vivid cherry red color, shaded yellow, reverse of petals crimson. One of the very best and most valuable for open ground. No other red Tea rose can compare with it.

PERLE DES JARDINS.

This magnificent yellow Tea rose still retains its position as one of the finest and most beautiful roses of its color ever produced. The color is a clear, golden yellow, an indescribably rich and beautiful shade, and entirely distinct from any other variety.

RAINBOW.

An elegant, striped rose, bearing freely beautiful buds and flowers of large size; color, a beautiful shade of deep pink, distinctly striped and mottled with brilliant crimson, elegantly shaded and toned with rich amber.

SAFRANO.

Lovely apricot yellow flowers; very beautiful in bud state. Chaste and elegant.

THE BRIDE.

The finest white rose ever offered. The buds are very large and of exquisite form, and the full flower is very double, measuring from three and a half to four inches in diameter.

MADAME SCIPION COCHET.

Vigorous in growth, with fine, healthy foliage; color, pale rose, shaded with clear yellow, making a charming combination of coloring.

FIVE FINEST NEW CLIMBING ROSES.

Price, 20c. Each; Five Sorts, 75c.; Two-Year-Old Plants, 40c. Each.

CLIMBING BRIDESMAID.

A rampant climber, making a growth of ten to fifteen feet in a single season, and producing such quantities of fine, large, dark pink flowers as to simply smother the plant. No finer climbing rose is to be had than this.

CLIMBING METEOR.

A strong, free growing climbing rose that, under favorable conditions, will make shoots 12 to 15 feet in a single season; very free flowering, producing all through the growing season its rich, dark, velvety crimson flowers, perfectly double, and in size and finish equal to the best hybrid perpetuals.

CLIMBING KAISERIN.

(Mrs. Robert Peary.) Flowers fine ivory white, of heavy texture and largest size. A grand addition to our list of climbing roses.

CLIMBING WOOTTON.

A climbing variety of this fine red rose that is bound to be very popular. It is a very strong, rapid grower, throwing long, thick canes and bearing large clusters of true Woottons.

CLIMBING PERLE DES JARDINS.

Same as the grand old Perle des Jardins and equally good in every way, but of vigorous climbing habit; flowers, golden yellow, of immense size.

SIX GRAND EVER-BLOOMING CLIMBING ROSES.

Price, Post-paid, 15c. Each; Set of Six Sorts, 60c.; Two-Year-Old Plants, 35c. Each.

CLIMBING SAFRANO.

A beautiful pillar rose, being a strong climber. Color, orange yellow or deep saffron; good size, full and sweet.

EMPRESS OF CHINA.

A true perpetual-blooming climbing rose, flowering continually from May until late in the fall. Of rapid growth, bearing handsome, semi-double pink flowers.

MADAME ALFRED CARRIERE.

Extra large, full flowers, very double and sweet, and a most profuse bloomer; color, rich creamy white, faintly tinged pale yellow.

MARECHAL NEIL.

A magnificent deep golden yellow variety; so famous as to need no description. Grown the world over for its immense yellow flowers. The finest rose of its color in existence.

REINE MARIE HENRIETTE.

A strong, vigorous grower; flowers large, full and of fine form; color, glowing crimson, elegantly shaded. One of the best climbers.

WILLIAM A. RICHARDSON.

Color, rich coppery yellow, flushed with carmine. A very beautiful variety, having few equals.

"Am much pleased with plants received from you. Also thank you very much for generous number of extra plants. All came in good condition."—MRS. S. B. GIBSON, Ballard, Wash.

THE FOUR RAMBLERS.

Price, Post-paid, 10c. Each; Set of Four for 35c. Two-Year-Old Plants, 35c. Each.

CRIMSON RAMBLER.

A charming pillar rose. The flowers grow in great pyramidal panicles, each carrying 30 to 40 blooms; the flowers are 1 to 1½ inches in diameter, and remain in perfect condition on the plants for a long time. The color is a bright, vivid crimson, showing none of the purplish tint so commonly seen in crimson roses.

YELLOW RAMBLER.

A new, hardy yellow climbing rose, blooming after the same manner as Crimson Rambler, in large clusters.

WHITE RAMBLER.

In habit of growth, foliage, manner of blooming, form of flowers and hardness it is said to be identical with Crimson Rambler, except that the flowers are pure snow-white and sweetly scented.

PINK RAMBLER.

Same as above, except the color of the flowers is pure, shiny rose, the partially open buds being bright, light carmine, thus producing a strong and pleasing contrast.

LEWIS AND CLARK COLLECTION OF TWO-YEAR-OLD ROSES.

Everybody is going to plant roses this year. You must do your share toward beautifying the country for the great Lewis and Clark Exposition, 1905.

The following varieties are recommended for general planting. They are the varieties that do well here and produce an abundance of choice, fragrant and handsome roses:

ALFRED COLOMB.
ANNE DE DIESBACH
AMERICAN BEAUTY
BARONESS ROTHSCHILD
BRIDE, THE
BRIDESMAID
CAPTAIN CHRISTY
DUCHESS OF ALBANY
GENERAL JACQUEMINOT
GLOIRE DE DIJON—Climber
KAISERIN AUGUSTA VICTORIA
LA FRANCE
LA FRANCE, WHITE
LA REINE
LOUIS VAN HOUTTE
MADAME ALFRED CARRIER—Climber

MADAME CAROLINE TESTOUT
MAMAN COCHET
MAMAN COCHET, WHITE
MAGNA CHARTA
MARECHAL NEIL—Climber
METEOR
PAPA GONTIER
PAUL NEYRON
PERLE DES JARDINS
PRINCE CAMILLE DE ROHAN
RAMBLER, CRIMSON—Climber
RAMBLER, WHITE—Climber
RAMBLER, PINK—Climber
ULRICH BRUNNER.
W. A. RICHARDSON—Climber

You will find descriptions of the above varieties on the preceding pages.

PRICES:—35c. each; six for \$1.75; twelve for \$3.00. Extra choice, large, well shaped plants, 50c. each, or \$5.00 dozen.

These bushes are good, well rooted plants, one and a half to three feet high, and must be sent by express or freight at buyer's expense.

BEGONIAS.

Six Beautiful Flowering Varieties.

Price, Post-paid, 10c. Each; Set of Six Sorts, 50c.

BERTHA DE CHATEAUCHER.—The freest flowering begonia we have. Makes a handsome window plant, with its glossy green leaves and bright red flowers.

CORAL GEM.—Clothed all over with round, glossy green leaves and glistening rose-pink flowers. A constant bloomer.

MOONBEAMS.—Pure, silvery white; very free bloomer and an exquisite kind.

METALLICA.—A fine, erect begonia, with dark, rough leaves; a free bloomer. The panicles of unopened flowers are bright red, with surface like plush.

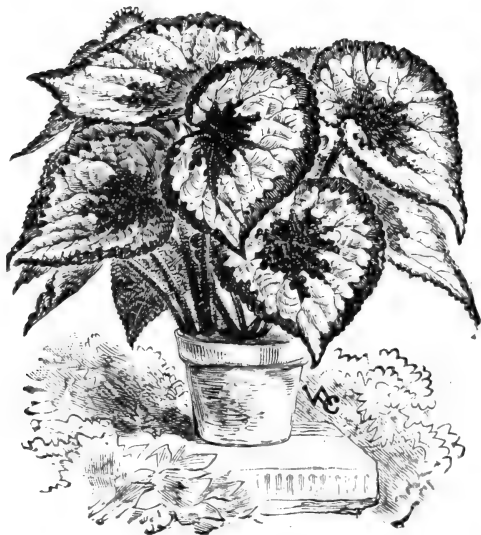
PRESIDENT CARNOT.—Foliage large, flowers coral red, in large panicles.

VERNON.—Bright, rich scarlet; very showy and handsome; always in bloom.

REX VARIETIES.

Grown for the beauty of their foliage. The leaves are large, variegated and margined with a peculiar silver-metallic gloss. The most ornamental of window plants. We offer the most distinct and handsomely marked varieties, including Count Louis Erdody and many other fine new sorts.

15c. each; eight for \$1.00.



REX BEGONIA.

CARNATIONS

For the beauty, fragrance and abundance of flowers, for its hardiness, easy culture and adaptability to outdoor or indoor cultivation, no plant excels the ever-blooming Carnation.

JUBILEE COLLECTION OF NEW CARNATIONS

This collection includes the very finest new varieties. All bear flowers of fine proportions, on long, stout stems, and in great profusion.

Price, 15c. Each; Set of Ten Sorts, \$1.20.

CERISE QUEEN.—Color, a lovely shade of cerise; flowers very large and handsome, borne on stems 18 inches long.

FLORA HILL.—Enormous size; full and double; under the most ordinary culture produces immense white flowers throughout the entire season.

G. H. CRANE.—A bright, deep scarlet. The flower is of the largest size and perfectly double; nicely fringed; sweet.

GENERAL GOMEZ.—Magnificent large flowers of a beautiful, deep, brilliant crimson color; pronounced the richest shade of color yet seen in Carnations.

GOVERNOR PINGREE.—A magnificent yellow; strong growth, free bloomer.

JUBILEE.—Color, richest shade of intense scarlet ever seen in a Carnation; flowers massive and of great substance.

LILY DEAN.—Flowers are a pure, satiny white, and marked and shaded with rosy pink. A perfect beauty.



CARNATION.

MRS. JAMES DEAN.—Flowers very large, center round and full; color, a delicate flesh pink, with a strong clove fragrance.

MISS FRANCIS JOOST.—Color, soft, pure rose; flowers large and well formed. It is a very healthy, free blooming and taking color.

WHITE CLOUD.—Flowers very large and full; spicy fragrance; strong, vigorous grower and a remarkably free bloomer; color, pure white; grand new sort.

ELDORADO COLLECTION OF CHOICE CARNATIONS.

Price, Post-paid, 10c. Each; Set of Fourteen Sorts, \$1.10.

DAYBREAK.—The favorite Carnation because of its rare and lovely color; a very pure, bright shade of flesh pink.

DR. SMART.—Ground color, cream white, suffused and margined with bright crimson.

ELDORADO.—Yellow; of free blooming habit; erect stems; finely formed flowers of good size; very free; petals edged with a narrow band of light pink.

EVALINE.—One of the finest of all White Carnations.

FIREFLY.—Rich scarlet; flowers large and deeply fringed; an early and continuous bloomer.

IVORY.—A beautiful, pure white variety; one of the most prolific and continuous bloomers.

METEOR.—Rich cardinal crimson; remarkably handsome and delightfully scented; a constant and profuse bloomer.

MRS. CLEVELAND.—A beautiful shade of salmon pink; large, and has a waxy appearance not seen in other varieties.

PORTIA.—Intense bright scarlet; vigorous constitution; very free flowering; one of the best sorts in cultivation.

PSYCHE.—Pure white ground, with very delicate margin and penciling of clear pink.

STORM KING.—A magnificent White Carnation; very large, full, symmetrical, snow-white flowers; deeply fringed and sweetly scented.

SWEET BRIAR.—A lovely variety, with fine flowers of the same fresh, delightful shade of pink as seen in the Sweetbriar Rose.

TIDAL WAVE.—A very attractive shade of carmine not heretofore seen in the Carnation family.

WILLIAM SCOTT.—The freest blooming of all Pink Carnations; every shoot of the strong, bushy plant bears its long, stout stem of fine, sweet flowers; color, bright, delicate, rosy pink.

WELL PLEASED.

"The plants I ordered from you came in good order. I was very much pleased with them. I thank you for your promptness."—

V. B. PAGE, Olympia, Wash.

Large Flowering Chrysanthemums.

Exhibition Set.

10 Cents Each; 10 Sorts, 75 Cents.

AUTUMN GLORY.—Deep reddish salmon upon opening, and gradually changing to a soft shrimp when fully finished.

COL. W. B. SMITH.—Rich golden bronze color; very large and fine.

EGYPTIAN.—Largest and most beautiful dark crimson scarlet yet raised.

GORGEOUS.—Deep, golden yellow, of the richest hue, of immense size.

LADY PLAYFAIR.—A beautiful light shade of pink.

LADY HANHAM.—Cerule pink, shading to gold.

MRS. HENRY ROBINSON.—Immense, globe-shaped, pure white flowers; one of the grandest sorts for exhibition.

MAJOR BONNAFFON.—Soft, clear yellow, full in the center. Perfect form and finish.

PRESIDENT W. R. SMITH.—Flowers heavy in substance and of beautiful texture; color, flesh pink.

SILVER WEDDING.—A large, pure white reflexed flower. Very broad petals, some being nearly one inch in width.

Early Flowering Set.

10 Cents Each; 10 Sorts, 75 Cents.

GEORGE W. CHILDS.—Of immense size and of the richest deep, velvety crimson.

IVORY.—Snowy white, of perfect in-curved form; very large.

J. E. LAGER.—Very early yellow, of good size.

JOHN SHRIMPTON.—Velvety crimson; a grand Japanese reflexed variety of magnificent form.

MIDGE.—Snowy white, high built, in-curved bloom. A beautiful flower.

MRS. A. J. CATON.—A large, in-curved Japanese; color, bright bronze, shaded red on inside of the petal.

MADAME BERGMAN.—Early, white; coming into bloom the first week in October; a fine, in-curved flower.

MARION HENDERSON.—A handsome yellow variety of pure tint; splendid in size and form.

ROSE OWEN.—A very early and very large, pure pink variety.

SOURCE DE OR.—Golden twisted flowers, tipped yellow and shaded with brown.

Jupiter Collection of SIX FINEST FUCHSIAS.

Price, Post-paid, 15c. Each; Set of Six Sorts, 60c.

ANNIE EARLE.

Tube and sepals waxy white; corolla single, clear carmine; plant splendid and free blooming.

BLACK PRINCE.

Tube and petals bright, waxy carmine, sepals large and broad, with pale green tips; large, open, pale pink corolla.

HENRY BROOKS.

Flowers very large; corolla plum color, tube and sepals crimson; one of the finest varieties.

JUPITER.

This is a grand, mammoth, double-flowered Fuchsia; flowers of enormous size; very large, rich violet purple corolla; tube and sepals bright crimson.

STORM KING.

Another general favorite; very graceful habit, and it bears double white flowers in great profusion.

WHITE GIANT.

Superb double white variety; tube and sepals bright scarlet; corolla large, double and waxy white; an excellent grower and profuse bloomer.

GERANIUMS.

Seven Finest Single Varieties.

Price, Post-paid, 10c. Each; Set of Seven Sorts, 50c.

MRS. E. G. HILL.

Color, clear salmon with a white center.

MONSIEUR P. OLOMBEL.
Rich vermilion scarlet, shaded orange; an attractive variety.

MRS. J. M. GARR.

Trusses large and of perfect form; color, pure snowy white.

PROTEE.

Clear, silvery lilac, passing to light pink; extra fine.

QUEEN OLGA.

Flowers bright pink; upper petals shaded to white.

SAM SLOANE.

An extra fine velvety crimson variety, carrying immense trusses.

SOLIEL COCHANT.

Large flowers of a yellow scarlet color; the finest of the yellow.

Seven Finest Double Varieties.

Price, Post-paid, 10c. Each; Set of Seven Sorts, 50c.

BRUANT.

Color, bright vermilion red of a most pleasing shade. Trusses very large.

CONTRASTE.

Flowers and trusses very large; lower petals orange and carmine, upper petals clear orange.

MADAME CH. DABOUCHE.

Color, bright rose, shading to apple-blossom.

MARY HILL.

The finest pure pink variety we know of.

MADAME HOSTE.

Color, flesh, lined and shaded salmon. One of the finest varieties in existence.

S. A. NUTT.

The best of the rich, dark crimson varieties. Trusses massive.

WHITE SWAN.

An excellent double white variety. Very free flowering.

English Pelargoniums—Lady Washington Geraniums.

Price, Post-paid, 20c. Each; Set of Six Sorts, \$1.00.

CARNIVAL. A lovely shade of brightest pink, grandly feathered with dark velvety crimson.

DR. MASTERS.—Rich crimson, with very large black blotches on both the upper and lower petals.

ELAINE. Pure white; upper petals blotched and feathered with purplish crimson. Very dwarf and free bloomer.

MADAME VIBERT.—Of bushy habit and free bloom. The blotches are blackish maroon, bordered with red, while the entire flower is edged with rose.

MABEL.—Velvety pink; upper petals blotched blackish maroon, lower petals spotted with crimson lake.

MADAME THIEBAUT.—Blotched and marbled rose on white ground; upper petals marked with crimson maroon, large white center, and edges of petals also white.

PETUNIAS.

(DOUBLE FRINGED.)

Price, Post-paid, 10c. Each; Set of Six Sorts, 50c.

CHAMPION.—Lavender pink, with white edges, veined and marbled crimson.

FANTASIE—White, splashed with violet and crimson.

WONDERFUL.—A distinct shade of heliotrope pink.

EDNA.—Deep crimson, edged with white.

SEA FOAM.—Pure, snowy white, beautifully fringed.

SULTAN.—Deep violet crimson of velvety finish.

HELIOTROPES.

Price, 10c. Each; Four Sorts, 35c.

These plants are universal favorites on account of their delightful fragrance. Flowering equally well as bedding plants in the summer or as pot plants in the house during winter.

ALBERT DELEAU—Bright golden yellow foliage, marked with delicate green; deep lavender-colored flowers.

LE GLAIN.—Light blue, white eyes; trusses enormous.

QUEEN OF VIOLETS.—Very large and fragrant; color, deep violet purple, with white eye. Very floriferous, and cannot be too highly recommended.

WHITE LADY.—Flowers large, of the purest white. One of the finest varieties extant.

MISCELLANEOUS PLANTS.

ASPARAGUS.

PLUMOSUS.—One of the handsomest of our foliage plants. The leaves are a bright green, gracefully arched, and as finely woven as the finest silken mesh. Their lasting quality when cut is remarkable, retaining their freshness for weeks; hence it ranks as the most valuable plant we have for this purpose, surpassing Maidenhair Fern in grace, fineness of texture and richness of color. Price, 25c. each.

SPRENGERI. (Emerald Feather.)—A most desirable new species, especially useful to grow as a pot plant for decorative purposes or for planting in suspended baskets. The fronds are frequently four feet long, are of a rich shade of green and most useful for cutting, retaining their freshness for weeks after being cut. It will make an excellent house plant, as it withstands dry atmosphere, and will succeed in almost any position. Price, 30c. each.

BOSTON FERN.

One of the most beautiful and useful of house plants. It is of easy culture and its sword-like fronds, in large specimens, attain a length of 3 to 4 feet, produced in a bewildering mass, arching, curving and interlacing in every conceivable direction. 25c. each.

CYPERUS.

Alternifolia. (Umbrella Plant.)—A splendid house plant. Resembles a palm. Of the easiest culture. 10c. to 25c. each.

CAREX.

Japonica.—A remarkable new plant with fine, spray-like foliage, drooping gracefully from the center. The leaf blades are beautifully edged with a golden band. 15c. each.

COLEUS.

The best ornamental foliage plant for summer bedding. Their varied tints of crimson, gold, bronze and green, richly blotched, veined or margined, produce a brilliancy of color unequalled. 10c. each.

Rainbow collection of 16 sorts. \$1.00.

RUBBER PLANT.

Ficus Elastica.—Very large, smooth, leathery leaves, evergreen foliage; one of the finest house plants grown. \$1.50 to \$2.00 each.

PANSIES.

These lovely flowers, favorites with everyone, are too well known to need any description. The plants which we offer are raised from the finest strains of seed, and persons purchasing from us have the assurance that they are getting the best that can be had. 5c. each; 50c. per dozen.

SALVIA SPLENDENS.

Among the finest summer and fall blooming plants; long spikes of scarlet flowers. 10c. each; \$1.00 per doz.

SMILAX.

A very graceful climber, having delicate and dense foliage and growing freely in any situation. 10c. each.

TUBEROSES.

Sweet scented white flowers in large spikes. 10c. each. \$1.00 per dozen.



PRIMROSES.

OBCONICA.

A lovely new perpetual blooming Primrose; flowering nearly every month in the year. The flowers are borne in loose trusses; delicate rosy lilac, shaded to white. 15c. each.

CHINESE PRIMROSE.

One of the best of all the plants we cultivate for winter flowers, and most worthy of recommendation for winter gardening. White, pink and scarlet. 15c. each; two for 25c.

MAMMOTH VERBENAS.

The Verbena is next to the Geranium, the most popular of all bedding plants. They commence to flower and spread the first day the plants are set out, and continue growing more beautiful until late in the fall. The new mammoth strains are noted for their robust growth and immense flowers. The colors range through the different shades of blue, pink, scarlet, white, purple, crimson, and some variegated. Price, 10c. each; 75c. per dozen.

WEeping LANTANA.

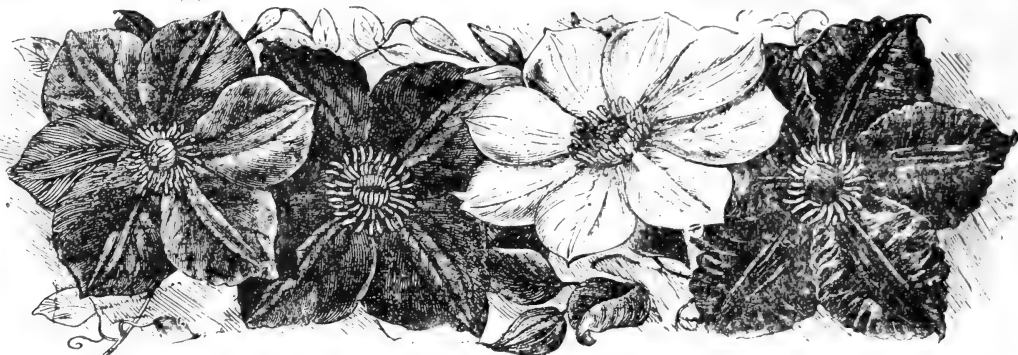
A beautiful, new, ever-blooming plant for baskets, vases, pots, or for culture outdoors. Produces its clear, lilac-pink flowers in clusters by the hundreds from early summer until severe frosts. Deliciously fragrant. 15c. each.

VIOLETS.

Of all the delightful perfumes that of the sweet Violet is the most delicate and pleasing, and places this modest flower among our greatest favorites. They bloom profusely in the spring, or earlier if planted in a cold frame. We have double blue, white, purple, and the single California. Price, 10c. each; 7 for 50c.

Limited space will not permit us to list all the flowering plants we can furnish. If you want something not listed, write us for prices.

HARDY CLIMBING VINES AND PLANTS.



RAMONA.

JACKMANNI.

HENRYI.

MAD. ED. ANDRE.

CLEMATIS.

Well known among hardy vines, bearing large and beautiful flowers of various shades of color through the greater part of the summer and fall. The most desirable climbers for trellises, porches and pillars.

Clematis paniculata.—A strong, rapid and vigorous grower; in late summer it produces sheets of medium sized, pure white flowers of the most pleasing fragrance. 30c., 50c. and 75c. each, according to size of plants.

Large Flowering Varieties, 75c. to \$1.00 each.

Henryi.—Fine, large, creamy white flowers; a strong grower and very hardy.

Jackmanni.—Intense violet purple, with a rich velvety appearance; distinctly veined.

Mad. Ed. Andre.—A beautiful new variety; flowers red, large and abundant.

Ramona.—Fine lavender.

HONEYSUCKLE, HALLEANA.

A vigorous climber, with pure white flowers, changing to yellow; evergreen. 30c. each.

AMPELOPSIS.

Quinquefolia (Virginia Creeper).—The common American Ivy, with large, luxuriant foliage, which in autumn assumes the most gorgeous and magnificent color. One of the finest vines for covering walls or verandas. Price, 30c. to 50c.

Veitchii (Boston Ivy, Japan Ivy).—This is the handsome creeper so generally used for covering brick, stone and wooden walls. When once established the vine grows very rapidly and clings to the wall with the greatest tenacity. The leaves are of a shining, glossy green, taking on beautiful autumnal coloring. Flowers small, followed by dense clusters of deep blue berries. Price, 35c to 50c.

IVY, ENGLISH.

Thick, leathery, evergreen leaves; very desirable climber for this section of the country 30c. each.

WISTERIAS.

Chinese Blue.—Immense clusters of blue flowers in the spring. A magnificent climber, attaining a height of 50 feet. 40c. to 75c. each.

Chinese White.—40c to 75c. each.

HARDY FLOWERING SHRUBS.

These Shrubs are large, two-year-old field-grown Plants, and can only be sent by express or freight, at buyer's expense.

ALTHEAS.

One of the most showy and beautiful shrubs, flowering profusely in August and September, when few other shrubs are in bloom. Several sorts. 30c. to 50c. each.

AZALEA.

Mollis.—The most gorgeous of all hardy shrubs. The blossoms, which vary in color from intense crimson to lemon yellow, are borne in great profusion in early spring before the leaves appear. 75c. to \$1.50 each.

BERBERRY.

Thunbergii.—A new Japanese shrub, bearing pretty yellow flowers, followed by crimson berries remaining on the branches all winter. 30c. each.

CALYCANTHUS.

Floridus.—The well known sweet scented shrub, bearing in May and June a profusion of fragrant purple flowers. 30c. to 50c. each.

DEUTZIA.

Crenata Fl. Pl..—Flowers double white, tinged rose on outside of petals; borne in great profusion during June. 30c. to 50c. each.

Gracilis.—A very desirable dwarf-growing variety; beautiful, pure white, bell-shaped flowers. 30c. to 50c. each.

HYDRANGEA.

Paniculata Grandiflora.—This is a grand shrub, easily grown, very showy and attractive, lasting in bloom for months; is perfectly hardy anywhere, and is without any question the finest hardy shrub in cultivation. It grows three or four feet high, is very bushy and compact; blooms in July, at a time when no other shrub is in flower. The flowers are pure white, afterwards changing to pink, and remain beautiful until destroyed by frost. 3c., 50c. to 75c. each.

LILAC.

Vulgaris.—Immense heads of beautiful purple flowers; very sweet. 30c. to 50c. each.

Vulgaris Alba.—Beautiful, pure white flowers. 30c. to 75c. each.

PHILADELPHUS.

Aurea.—A shrub of medium size, with golden yellow foliage and fragrant white flowers. 30c. to 40c. each.

SNOWBALL.

(*Viburnum*).—A very handsome ornamental shrub, covered with globular heads of pure white flowers. 30c. to 75c. each.

Plicatum.—Japanese Snowball. One of the best; of upright, bushy growth, entire leaves, and bearing heads of white flowers in great profusion. Much superior to the old Snowball. It blooms toward the close of May. 75c. each.

SPIREA.

Bumalda.—Of dwarf, compact habit, covered during the summer and fall with a mass of bright, rose-colored flowers; fine and distinct. 30c. each.

Van Houtte.—Covered in June with a mass of large, white flowers, making a beautiful appearance. 30c. each.

WIEGELIA.

Candida.—Beautiful white flowers; a continuous bloomer. 30c. each.

Rosea.—A fine shrub bearing rose-colored flowers in June. 30c. each.

For a more complete and descriptive list of Shrubs, etc., send for our 24-page Nursery Catalog.

Flowering Roots and Bulbs For Spring, Summer and Fall.

BLEEDING HEART.—

Produces freely large racemes of pink and white heart-shaped flowers. Graceful foliage. Each, by mail, 30c.

CALLA Ethiopia.

(Lily of the Nile.)—An old and well known house plant; white trumpet-shaped flowers. 10c. and 25c. each.

Cannas—(French.)

Where brightest and most imposing effects are desired in bedding the Canna is unequaled. Recent years have wrought wonderful improvement in the Dwarf French race, increasing its beauty a hundred fold. Price, 15c. each; set of 8 sorts, \$1.10.

CALADIUM ESCULENTUM, or Elephant's Ear.—Large size, 40c.; per dozen, \$4.00, post-paid. Medium size, 30c.; per dozen, \$3.00, post-paid.

Dahlias.

The Dahlia is one of the most popular fall-flowering bulbs and a great favorite of many. The flowers are showy and gorgeous. The latest introductions are marvels of beauty. Dahlias commence to bloom in July and continue until cut down by frost.

Five New Cactus Dahlias.

These produce flowers with long, cactus-like petals of various colors.

GRAND DUKE.—Flowers handsome, large. Delicate pink.

GLORIOSA.—Bright scarlet; twisted petals.

JOHN H. ROACH.—Free bloomer. Soft yellow.

MRS. PEART.—A grand, pure white of large size. Fine form.

NYMPHAE.—Very distinct; petals broad, somewhat incurved. Light pink.

20c. Each. Set of 5 for 70c.

Large Flowering Fancy and Show Dahlias

BLACK BEAUTY.—A grand dark maroon.

CRIMSON KING.—A fine, large, bright crimson.

DAYBREAK.—Delicate, soft pink.

QUEEN OF YELLOWS.—A lovely, pure canary yellow.

A. D. LIVONI.—Best clear, soft pink. Petals beautifully quilled.

MISS MARY LOMAS.—White, flecked with deep lavender. Beautiful.

WHITE SWAN.—A handsome, large, pure white. Price, 20c. Each; 3 for 50c.; 7 for \$1.00.

MIXED DAHLIA ROOTS.

We have grown many valuable varieties other than those mentioned on this and the preceding page. Not having the space, and in many cases only a limited supply, we cannot give them individual mention, so have put all these in a mixture and offer them unnamed at 15 cents each; 2 for 25 cents; \$1.25 per dozen, post-paid. By express at purchaser's expense, \$1.00 per dozen.

Paeonies.

Perfectly hardy, large, showy plants, bush-like in growth, with great flowers almost rivaling the rose in color and perfection of bloom; pleasantly fragrant. The plants should have good soil, but require little or no care from year to year, though well repaying an annual application of rotted manure. The paeony is well adapted for grouping with shrubbery or for separate planting on lawn or in garden.

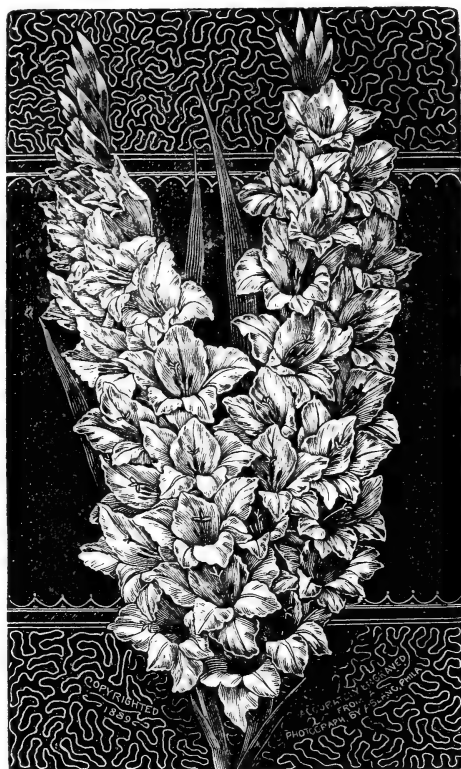
Chinese Officinalis.

Handsome, early-flowering varieties.

SEPARATE COLORS.—White, Pink, Crimson, Red, Rose or Mixed.

Nice Roots, 30c. each; \$3.00 doz.

PAEONIES, MOUTAN.—Grows four feet high; handsome double flowers of enormous size and rich colorings. Ten sorts. Per root, 75c.



GLADIOLUS.

Gladiolus.

The gladiolus is one of the most beautiful summer-flowering bulbs, and is of easiest culture. The spikes of brilliant flowers attain a height of about two feet. The color range is rich and varied, including all the fiery tints.

GLADIOLI LEMOINEI.—These have odd and fantastic markings, embracing a grand range of the most brilliant and showy colors. Very fine mixed. Large bulbs, 10c each; \$1.00 per doz., post-paid.

GLADIOLI CHILDSI.—The flowers of this improved strain are of grand size and are borne on tall stalks. The colors are very showy. Choice mixed, including many named varieties. 10c. each; \$1.00 per doz.

GLADIOLI FINE MIXED. This mixture is composed of a splendid assortment and will produce a large variety of flowers at a little expense. First size, bulbs, 2 for 15c., 75c per dozen; Second size bulbs, 60c. per dozen.

LILY OF THE VALLEY.

One of the most charming spring-flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. It will thrive in any common soil, and will do well in shady situations, where few other plants will succeed. 5c. each; 50c. per dozen.

JAPANESE LILIES.

They are the most fragrant, beautiful and stately of all outdoor flowers, and require very little care.

AURATUM.—The most popular. Its immense, ivory-white flowers are thickly studded with yellow and crimson spots, while in the center of each petal is a golden band shading at its edges into white. Large size bulbs, 20c. each; \$2.00 per doz.

LONGIFLORUM.—Pure white. Best Easter lily. 15c. each; \$1.50 per doz.

SPECIOSUM ALBUM.—Pure white. 20c each; \$2.00 per doz.

SPECIOSUM RUBRUM.—White, with dark rose spots. 20c. each; \$2.00 per doz.

Vegetable Plants and Roots.



EARLY CABBAGE.

OUR PLANTS
ARE ALL
HARDY, STRONG,
WELL ROOTED.
AND
SURE TO GROW.

We grow large quantities of vegetable plants and roots, and can supply all the varieties listed below in their proper season, in any quantity.

Let us have your orders early and we will ship later, or as requested.

	Post-paid. Per Dozen	By Express Pr. 100	Pr. 1000
Cabbage—			
Early varieties	\$0.20	\$0.50	\$3.50
Medium early varieties	.20	.50	3.50
Late varieties	.15	.40	3.00
Cauliflowers—			
Early Snowball	.25	1.00	7.00
Extra Early Dwarf Erfurt	.25	1.00	7.00
Late varieties	.20	.75	5.00
Celery—			
All varieties	.20	.65	4.50
Celeriac	.25	1.00	
Tomatoes—			
All varieties	.25	.85	5.50
Tobacco	.25	.80	5.00
Kale	.20	.60	3.50

MISCELLANEOUS.

Broccoli	.20	.75	5.00
Brussels Sprouts	.20	.60	3.50
Egg Plant	.25	1.00	
Pepper	.25	1.00	
Sweet Potato Plants	.30	.85	5.50
Chives (Schnittlauch)		25c. per bunch	

NO PLANTS SENT C. O. D.—Write for quotations on larger quantities.

ROOTS, ETC.

ASPARAGUS.

Varieties, Conover's Colossal. Palmetto. Columbia Mammoth White.

One-year-old plants, post-paid, doz., 25c.; 50, 75c.

Two-year-old plants, post-paid, doz., 40c.; 50, \$1.00.

By express or freight: One-year-old plants, 25, 35c.; 50, 50c.; 100, 75c. Two-year-old plants, 25, 50c.; 50, 75c.; 100, \$1.00.

HOP VINES.

Post-paid, each, 7c.; dozen, 50c. By express, 25c. dozen; \$1.50 per 100.

HORSE RADISH ROOTS.

Post-paid, each, 5c.; dozen, 40c. By express, 25c. dozen; \$1.50 per 100.

RHUBARB ROOTS.

Varieties, Mammoth, Giant, Victoria or Linnaeus. One-year-old roots, post-paid, each, 8c.; dozen, 75c. One-year-old roots by express or freight, 50c. dozen \$3.00 per 100.

Two-year-old roots, post-paid, each, 15c.; dozen \$1.50.

Two-year-old roots by express or freight, 85c. dozen \$6.00 per 100.

We often have 3, 4 or 5 year old Rhubarb Roots. If you want some extra large ones, write us.

If wanted in larger quantities write for special prices.

NOTE.—We advise our customers to order the above roots by express or freight, if possible, as it enables us to send much larger and better rooted plants, at a less cost to the buyer.

FOR FLOWERING ROOTS, see preceding page.

Flower Pots.

	Pots. Each.	Doz.	Saucers Each.	Doz.
2-inch	\$.03	\$.20		
3 "	.04	.35		
4 "	.05	.45	.03	25
5 "	.06	.55	.04	36
6 "	.08	.85	.05	45
7 "	.12	1.10	.08	75
8 "	.14	1.45	.10	95
9 "	.18	1.80	.12	1.16
10 "	.30	3.00	.15	1.25
12 "	.50	5.00	.20	1.80

Fruit Trees and Bushes.

Our large Nursery Catalogue contains a complete list with full description of all fruit, shade and ornamental trees, shrubs, climbers, etc. We would be pleased to mail it to anyone who is thinking of purchasing a stock of trees. We simply give below a condensed price list:

APPLES.

	Each.	Per 10.	Per 100.
2-year-old	.25c	\$2.00	\$15.00
1-year-old, 4 to 6 feet.	.20c	1.50	12.50
1-year-old, 3 to 4 feet.	.15c	1.25	10.00

Two-year-old Apple Trees are very scarce.

APRICOTS.

	Each.	Per 10.	Per 100.
1-year-old, 4 to 6 feet.	.25c	\$2.25	\$20.00
1-year-old, 3 to 4 feet.	.20c	1.50	12.50

CHERRIES.

	Each.	Per 10.	Per 100.
2-year-old, 4 to 6 feet.	.50@75c	\$5.00	
1-year-old, 4 to 6 feet.	.30c@50c	4.00	
1-year-old, 3 to 4 feet.	.25c@30c	2.50	20.00

We have very few 2-year-old cherry trees; they are very scarce and high priced.

PEACHES.

	Each.	Per 10.	Per 100.
4 to 6 feet.	.25c	\$2.00	\$15.00
3 to 4 feet.	.20c	1.50	12.50

PRUNES AND PLUMS.

	Each.	Per 10.	Per 100.
1-year-old, 4 to 6 feet.	.20c	\$1.50	\$12.50
1-year-old, 3 to 4 feet.	.15c	1.25	10.00

Select 2-years, 4 to 6 feet, Each 25c.

QUINCES.

	Each.	Per 10.	Per 100.
1-year-old	.20c	1.50	12.50
2-year-old	.30c	2.50	20.00

BLACKBERRIES and RASPBERRIES

8c each; per 10, 60c; per 100, \$4.00

CURRANTS.

10c each; per 10c, 75c; per 100, \$5.00.

GRAPES.

	Each.	Per 10.	Per 100.
1-year-old	.15c	\$1.00	\$ 8.00
2-year-old	.20c	1.50	12.00

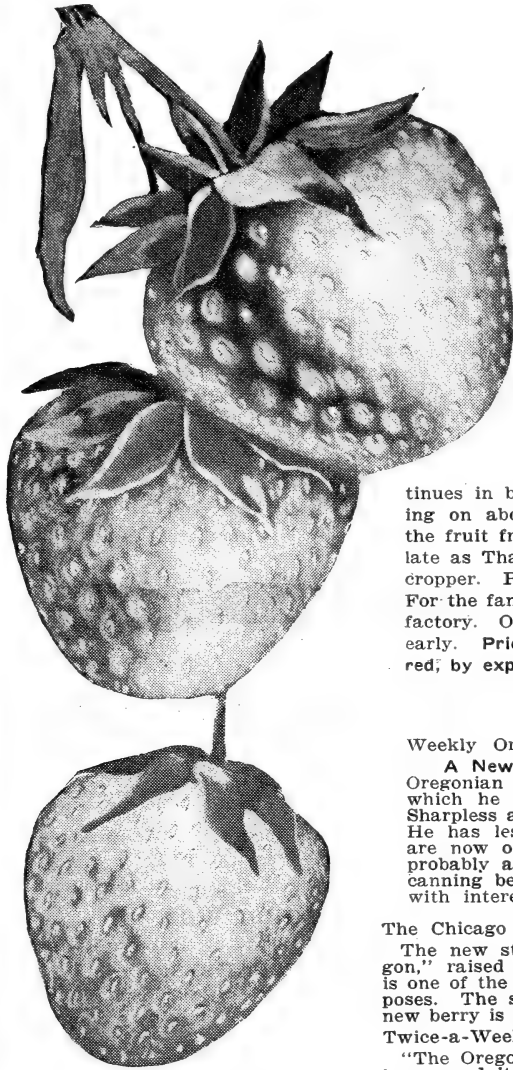
Extra large, 25c.

GOOSEBERRIES.

10c. each; per 10, 75c.; per 100, \$5.00.

Make up a list of what you are going to need in Trees, Plants and Bushes, and submit it to us for prices. It will pay you.

STRAWBERRIES AND SMALL FRUITS.



THE OREGON

Every owner of a home should have a part of the garden in Strawberries. Nothing is so nice as to have your table berries right fresh from the vines.

The Oregon.

The greatest and grandest strawberry ever produced; 15 berries fill a quart box; 60 berries fill a 5-lb. grape basket. You never saw its equal. It always looks bright, fresh and attractive.

A handsome new Strawberry originated by W. D. Hufstater and now placed on the market for the first time. This new berry is a cross between the Sharpless and the Jessie, and has been in bearing for two years. In color, it is a rich dark red; color extending to the center. The berry is very prolific and a heavy cropper. The flavor is rich, sweet and delicious. For table use and canning it cannot be equaled. We consider it one of the best shipping berries, having shipped a crate 700 miles—berries arriving in good condition. "The Oregon" ripens very early and continues in bearing until late in the season, a good second crop coming on about October. The foliage is large and thick, and protects the fruit from frost, so that berries can often be gathered here as late as Thanksgiving Day. This variety is very prolific and a heavy cropper. Plants the first season often bear a quart to the plant. For the family garden this berry will certainly prove the most satisfactory. Our stock of plants for this season is limited, so order early. Price 25c. each, 6 for \$1.00, 12 for \$1.50, postpaid; per hundred; by express, \$10.00.

What the Papers Say.

Weekly Oregonian, June 13, 1902:

A New Variety of Strawberries.—W. D. Hufstater brought to the Oregonian office yesterday a box of a new variety of strawberries, which he has christened "The Oregon." They are a cross of the Sharpless and the Jessie, and for size and flavor cannot be beaten. He has less than a quarter of an acre in strawberries, and there are now on the vines, which were planted the latter part of March, probably as much as 15 gallons of berries. "The Oregon" is a good canning berry and its advent in the markets of the city is regarded with interest by growers and consumers.

The Chicago Packer, July 5, 1902.

The new strawberry, "The Oregon," raised by W. D. Hufstater, is one of the best for canning purposes. The size and flavor of the new berry is unexcelled.

Twice-a-Week Statesman, Salem.

"The Oregon" is a good canning berry, and it is so much ahead of

any other for a second growth crop that it is surely destined to become a great favorite, especially in the Willamette valley, where the conditions are so favorable for growing a second crop. From a quarter acre Mr. Hufstater sold \$100 worth of berries of the first crop this year. They were all taken by one Salem grocery store.

MAGOON.—

Originated by Mr. Magoon, near Portland. Berry large, firm and excellent; sub-acid flavor; bears heavily, and throughout the season, being a little later than the Wilson. Specially adapted to Western Oregon and Washington.

Plants per dozen, 25c.; 100, 50c.; 1000, \$4.00.

CLARK'S SEEDLING.—

The berry that has made Hood River famous. Best shipper; berries large, firm and of delicious flavor; vines bear large crops and is specially adapted to dry soil. Plants per dozen, 25c.; 100, 50c.; 1000, \$4.00.

WILSON.—

The old standard for shipping; a heavy bearer of fine, moderate-sized berries; sharp acid flavor, and the leading sort for canning.

Plants per dozen, 25c.; 100, 50c.; 1000, \$4.00.

POSTAGE.—Strawberry Plants are mailed, postpaid, at dozen rates, if desired. If ordered at 100 rates, to go by mail, add 25c per 100 to the prices quoted. At 1000 rates by express or freight only.

Logan Berries.

Each, postpaid, 20c.; per 10, \$1.50.

Berry between the raspberry and the blackberry; the fruit is sometimes an inch and one-quarter long, dark red, as large as the largest blackberry, and produced in immense clusters; it partakes of the flavor of both the blackberry and raspberry; a mild, pleasant, vinous flavor, delicious and peculiar to this berry alone; fruit ripens early, just after strawberries. It is excellent for the table, eaten raw or stewed, and for jelly or jams it is without an equal.

Remember, we have a complete and descriptive catalog of all fruit, shade and ornamental trees and shrubs. Sent free on request.

Pruning Tools, Etc.—Florists' Supplies.



Long Handle Tree Pruners

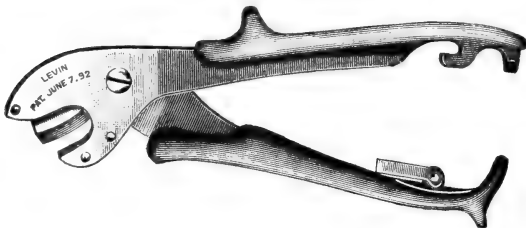
6 feet.....	\$0.75
8 feet.....	1.00
10 feet.....	1.10
12 feet.....	1.25

Cannot go by mail. Purchaser will have to pay freight or express charges.

Pruning Saws.

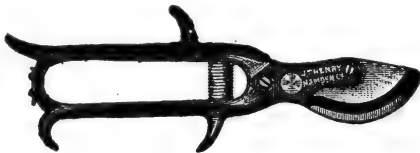
CRESCENT, 12-inch.....	70c
CRESCENT, 14-inch.....	75c
WONDER, 20-inch.....	85c

The Levin Pruner.



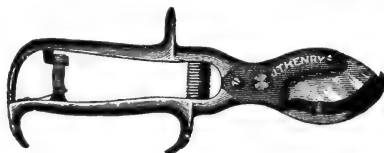
Cuts clean, does not mash the twig.

No. 23. 7-inch, cuts $\frac{1}{2}$ inch.....	Postpaid, 75c.
No. 24. Cuts $\frac{3}{4}$ inch.....	Postpaid, \$1.00



No. 0.

No. 0.	40c.; postage, 15c.
No. 00. Similar to 0, but with flat spring.	45c.; postage, 15c.
No. 9. Loop handle.....	50c.; postage, 15c.



No. 14.

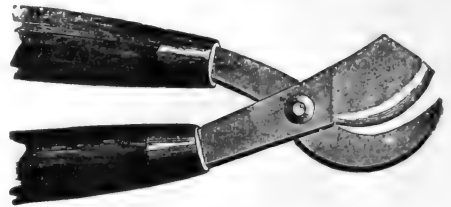
No. 14.	50c.; postage, 15c.
No. 12. Similar to 14, with steel spring.	55c.; postage, 15c.

LADIES' Nickel plated, 6-inch shears, like No. 30.....75c.; postage, 10c.



No. 30.

No. 30. 9-inch California pattern; German make, black finish, polished blade.....	75c.; postage, 15c.
No. 40. 9-inch; same pattern as 30; bright finish, polished blade, spiral steel spring. Made for hard service.....	\$1.00; postage, 15c.
No. 4773. 9-inch Reiser pattern, full polish, with double brass springs.....	\$1.50; postage, 15c.
No. 4771. 9-inch; California pattern; spiral steel spring. Made for heavy work.....	\$1.75; postage, 15c.
FLOWER SHEARS. Nickel plated, cuts and holds the flower.....	80c.; postage, 10c.
GRAPE SHEARS. Like the above.....	80c.; postage, 10c.



BRANCH SHEARS.

26-inch.....	\$1.00
41-inch.....	1.25

PRUNING KNIVES.

We have a good assortment of these, ranging in price from 50c to \$1.50. If out-of-town customers will tell us about what they want we can give them good value for money sent.

BUDDING KNIVES.

M. & G. Budding.....	\$0.25
M. & G. Grafting.....	25c and 30c
I X L Budding, Ivory opener.....	1.00
Budding, Gutta Percha opener.....	.60

Garden Trowels.

Don't class these tools with the cheap stock offered by the department stores.



Steel Transplanting Trowel.....15c.; postage, 10c.



No. 309. Blade and shank of one piece of steel. The best tool of its kind in the market..50c.; postage, 15c.
No. 310. Good steel trowel, with malleable iron shank, firmly riveted.

A good trowel for the money.....10c.; postage, 10c.
No. 3. Steel trowel, better finished than the above.....25c.; postage, 10c.

No. 3090. A first-class trowel.....35c.; postage, 10c.

Grafting Wax.

$\frac{1}{4}$ lb., 10c.; $\frac{1}{2}$ lb., 25c.; lb., 35c.; postage, 16c. per lb.

TREE LABELS.

Painted.....	\$0.70 per M.
Painted, wired.....	.90 per M.
Unpainted.....	.60 per M.
Unpainted, wired.....	.75 per M.
Printed.....	.85 per M.
Copper wired.....	1.25 per M.
Brass wired.....	1.25 per M.

POT LABELS.

Painted.....	.85 per M.
Unpainted.....	.65 per M.

Raffia.

For tying plants.....lb., 25c.; by mail, 45c. lb.

Raffia has lately become very popular to weave into hats for ladies.

CHENILE.

Purple, light, blue, red, white, yellow, per skein, 35c.

FLORIST LETTERS.

Block, 2c.; Script, 4c.

WIRE HANGING BASKETS.

12-inch, 25c.; 16-inch, 60c.

TIN FOIL, FLORIST.

1 lb., 15c.; 10 lbs., \$1.25.

TIN FOIL, PURE.

1 lb., 65c.

PLANT STAKES.

Round Stakes, painted green, 3 ft., 60c. doz.: $\frac{3}{2}$ ft., 75c.; 4 ft., 85c.; 5 ft., \$1.35; 6 ft., \$1.75.

BAMBOO STAKES.

4 ft., 20c. doz.; 5 ft., 25c.; 6 ft., 30c.

MASTICA.

For glazing hot house windows. Put up in one gallon cans, ready for use.
Price, \$1.50 per gallon.



MASTICA MACHINE. For applying Mastica. Saves time, labor and expense in glazing hot house windows.
Price, \$1.35.

**GRASS HOOKS**

3 in 1. New (see cut)....50c. each.
ENGLISH.—First-class75c.
CONCAVE.—Polished steel.....65c.
GERMAN.—No. 7, good grade....35c.
GERMAN.—No. 1, best cheap sickle.30c.

GRASS SHEARS.

Fine for trimming borders and edges. Good make. 6 inch blade.
60c. each.

PLANT-PROTECTING CLOTH.

Light grade, per yard. 10c.; per piece of 68 yards. \$5.50.

Medium grade, per yard. 15c.; per piece of 62 yards. \$6.00.

No. 1. Burlap Cloth. 40x76 inches. \$1.00.

No. 2. Duck Cloth outside. 40x76 inches, \$1.25.

No. 3. Waterproof. Made of oil duck, filled and quilted the same as No. 1. 40x76 inches, \$1.50 each; 76x76 inches, \$1.75 each.

LANG'S HAND WEEDER

HANDIEST TOOL ON EARTH.

By Mail Prepaid



Excelsior Weeders.....20c.
Noyes Hand30c.
Hazeltine's30c.
Combination30c.

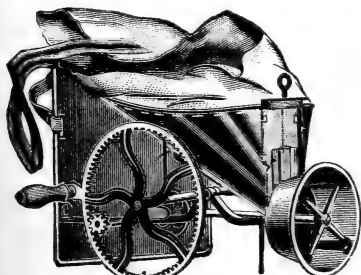
BROADCAST SEED SOWERS.**IMPROVED CAHOON.**

This machine has been on the market for years, and is probably the most popular sower. They have a force feed and do excellent work. Instructions with each machine.
Price, \$3.50.

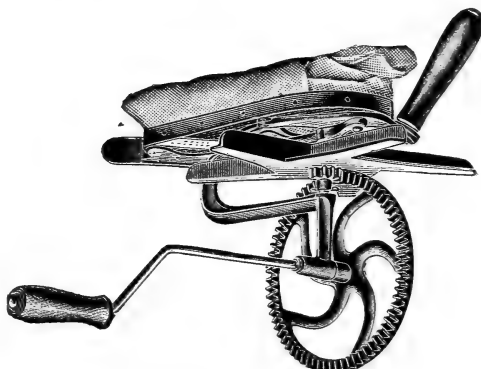
THE COLUMBIA.

A new and practical machine for sowing correctly all varieties of farm seeds. Perfect in distribution. Mechanically constructed. Neatest and most simple. Has automatic cut-off and regulator. The lightest running of all seed sowers. Strongest in construction. The lowest priced standard machine manufactured.

Each machine packed separately. The many advantages of this seeder should appeal to every shrewd buyer.
Price, \$2.25.

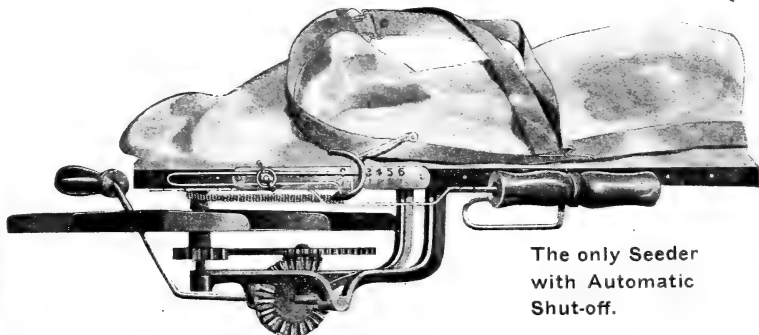


CAHOON.

**NEW PREMIER.**

A strong, neat, compact seed sower for sowing any kind of seed or grain. The best low-priced hand seed sower on the market. Superior in every way to the so-called cheap sowers. Price, \$1.50.

THE GRANGER, Well Known, Price, \$3.00.



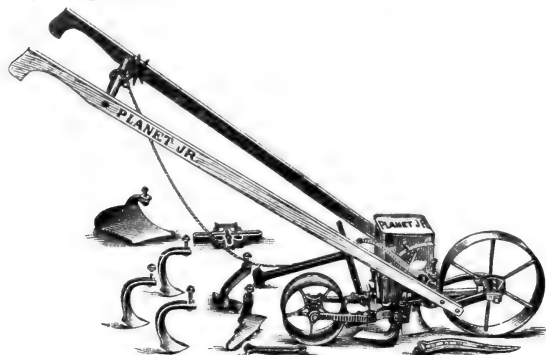
The only Seeder with Automatic Shut-off.

THE COLUMBIA BROADCAST SEEDER.

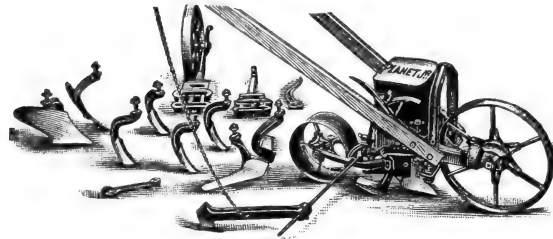
Every farmer should have a Broadcast Seeder. They save seed and labor.

"Planet, Jr." Farm and Garden Tools for 1903.

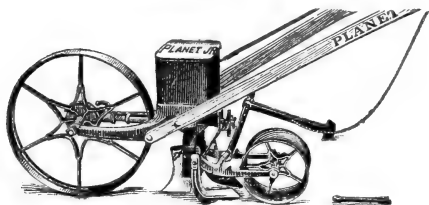
Space will not permit our showing and describing all of the "Planet Jr." tools, but we will send a fully illustrated catalogue free for the asking to any who desire it, and we can supply promptly anything ordered. "Planet Jr." goods are standard machines, the best on the market. In sending your orders to us you can rely on getting bottom prices.



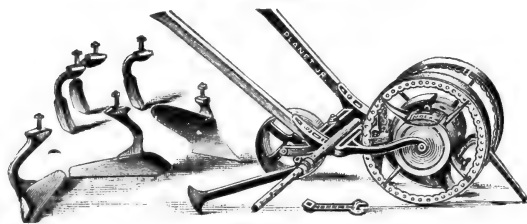
No. 4.



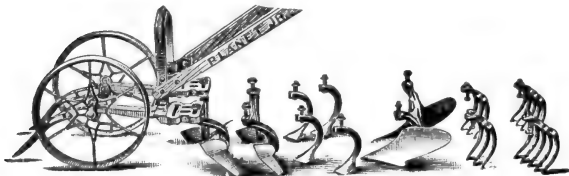
No. 25.



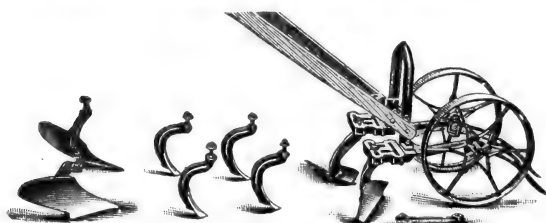
No. 3.



No. 1.



No. 11.



No. 12.

No. 4 Combined Hill and Drill Seeder and Wheel Hoe Cultivator and Plow. Price, \$11.00. Drill only, \$9.00

This admirable tool combines in a single convenient implement a capital hill dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator and a plow. It holds two quarts, and, as a seeder, is like the No. 5, sowing in continuous rows, or dropping in hills at five different distances. It is thrown out of gear by simply raising the handle. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe, garden plow or cultivator. It is useful almost every day of the season at every stage of garden work. With this one implement the small farmer can do practically all the work in his small crops.

A set of three rakes supplied when specially ordered. Price \$1.00 extra.

No. 25 Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator, Rake and Plow. Price, \$14.00.

It practically combines in one tool the No. 4 Drill and No. 12 Double Wheel Hoe.

As a drill it is almost identical with the Planet Jr. No. 4 Drill; will sow in drills or hills, 4, 6, 8, 12, or 24 inches apart, and has the same feed, hill dropping mechanism and automatic device for throwing out of gear and the new combined cut-off and seed index, with brass thumbscrew adjustment. It is thoroughly substantial and is accurate in sowing all kinds of garden seeds in either hills or drills.

No. 3 Hill and Drill Seeder. Price, \$11.00.

Hopper holds three quarts; 15-inch patent steel driving wheel, with broad face, which makes the drill run easily, even when full. The quantity of seed is regulated by an accurate index, conveniently placed at the top of the handle, and carefully graduated for either hill dropping or drilling. The flow of seed is started or stopped by a single movement of the forefinger. The roller is broad and hollow-faced, leaving a wide, smooth track for the wheel hoe. It is extremely simple, and will not injure the most delicate seed.

No. 1 Combined Drill, Seeder and Wheel Hoe, Cultivator and Plow. Price, \$10.00.

This has long been the most popular combined tool made. From a drill it is changed to its other uses by removing two bolts, when hoes, etc., can be quickly attached. It is an excellent seed sower, a first-class double or single wheel hoe.

A pair of six-tooth rakes supplied when specially ordered. Price \$1.00 extra.

No. 2 Drill Seeder.

Very much like No. 1, except that it has no cultivating tools and holds more seed. Price \$8.00.

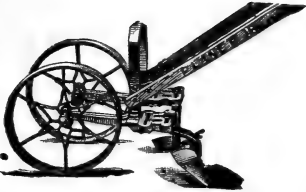
DOUBLE WHEEL HOES.

The Planet Jr. double wheel hoes are the greatest tools in the world for the gardeners. They do more work, and do it better and easier than can possibly be done in any other way. They represent the very highest perfection in every detail.

No. 11 Double Wheel Hoe, Cultivator, Rake and Plow. Price, with attachments as shown in Cut, \$9.50.

No. 12 Double Wheel Hoe, Cultivator and Plow. Price, \$7.50.

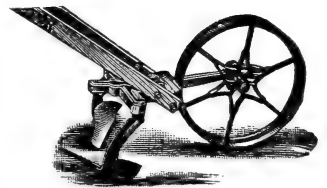
This tool is identical with No. 11 Wheel Hoe, except that it has fewer attachments, and is sold at a correspondingly lower price. The tools shown and sold with No. 12 are what gardeners use most, and the others can be added as wanted.



No. 13 Double Wheel Hoe. Price, \$5.25.

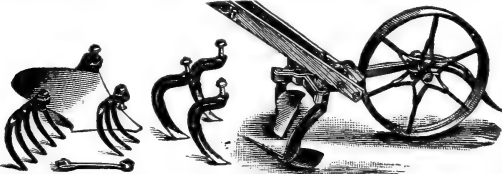
This tool is the No. 11, with 6-inch hoes only, these being the tools that are most generally useful. Any or all of the other tools shown with No. 11 may be added at any time, and are sure to fit.

Space will not permit illustrating and describing all of the "Planet Jr." tools, but we will gladly send a fully illustrated catalogue to any who desire it.

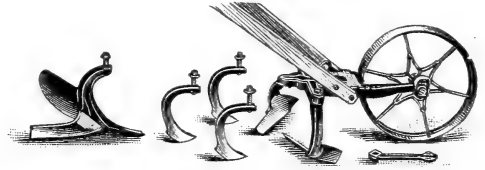


No. 18 Single Wheel Hoe. Price, \$4.00.

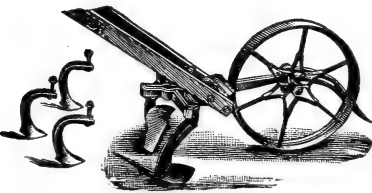
This tool has the same frame and handles as No. 16, but has one pair of 6-inch hoes only—the tools that are most constantly useful throughout the season. All the other tools can be added as needed.



No. 16 Single Wheel Hoe, Cultivator, Rake and Plow. Price, \$6.35.

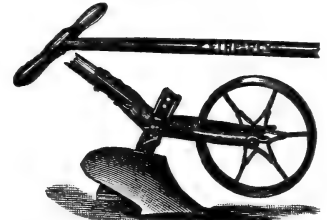


No. 17 Single Wheel Hoe, Cultivator and Plow, as in Cut. Price, \$5.50.



No. 17 1-2 Single Wheel Hoe and Cultivator. Price, \$5.00.

Fire Fly Plow. Price, \$2.50.



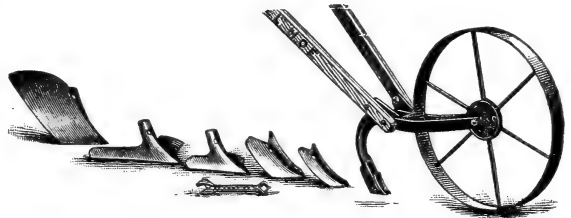
No. 17½.

This tool is most useful in small gardens. Chicken raisers will find it very useful in plowing up the scratching yards.

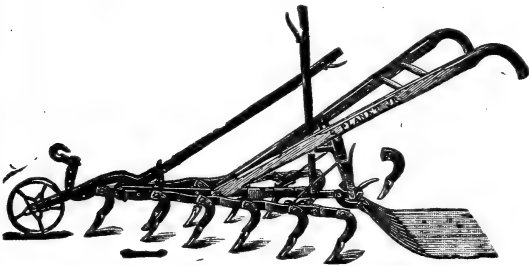
FIREFLY PLOW

Farmers' No. 19 Single Wheel Hoe, Cultivator and Plow. Price, \$4.25

This new and attractive implement is especially designed for the Farmers' Garden Work, though it offers to everyone with either field or garden a cheap and effective tool for all hand wheel hoe operations. The wheel is high and is made with stiff steel rim and spokes. The handles may be readily changed to suit man or boy.



No. 19.



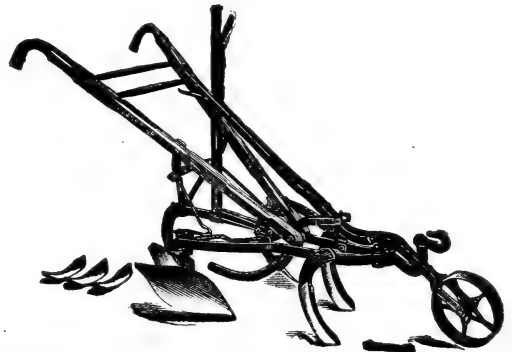
Planet Jr. Twelve-Tooth Harrow, Cultivator and Pulverizer. Price, plain, \$6.30; with Wheel, \$7.40; Complete, \$9.00.

This tool has rapidly grown into favor with farmers, market gardeners and strawberry growers. It has a high frame and the chisel-shaped teeth cut an inch wide each. It may be set with teeth trailing.

The foot lever pulverizer is a capital addition for preparing ground for the seed drill or for plant setting. Hand levers regulate both width and depth while in motion.

REMEMBER, this list is ONLY PART OF WHAT WE CARRY IN STOCK.

Write for our handsome complete Catalogue of Planet Jr. Goods. Free.



No. 8 Horse Hoe and Cultivator. Price, with Attachments as in Cut, \$9.00.

Probably no other cultivating machine is so widely known as the "Planet Jr." Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain, yet it is light and easy to handle.

Planet Jr. No. 9 Horse Hoe and Cultivator. Price, \$7.90.

Similar to No. 8, but without lever.

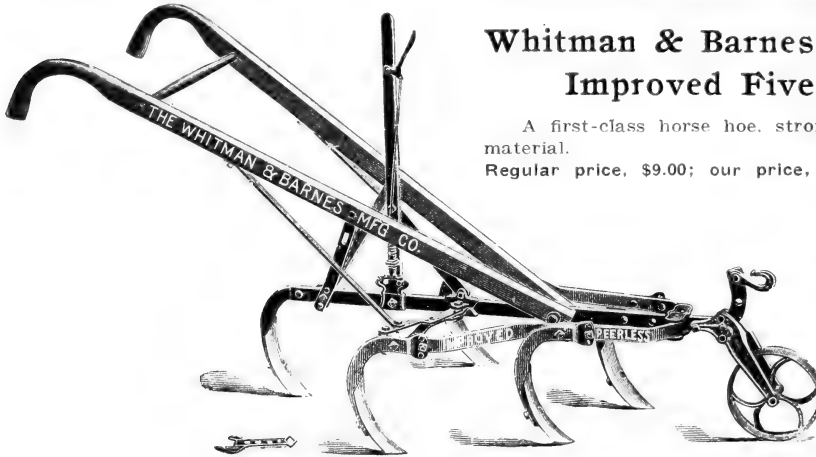
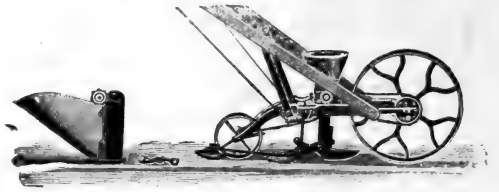
THE BEST ONION DRILL.

The Iron King Seed Drill is acknowledged by the majority of the large onion growers of Oregon and Washington to be the most practical of the drills for sowing Onion Seed.

It is a well-made, durable and easy running machine, accurate and reliable, and with careful use will last a lifetime.

It will save the price of the machine in sowing a few acres. If you are growing onions you cannot afford to be without one.

The Iron King can also be set to sow anything from turnips to peas. Price, \$9.25

Iron King Seed Drill.**Whitman & Barnes****Improved Five-Tooth Cultivator.**

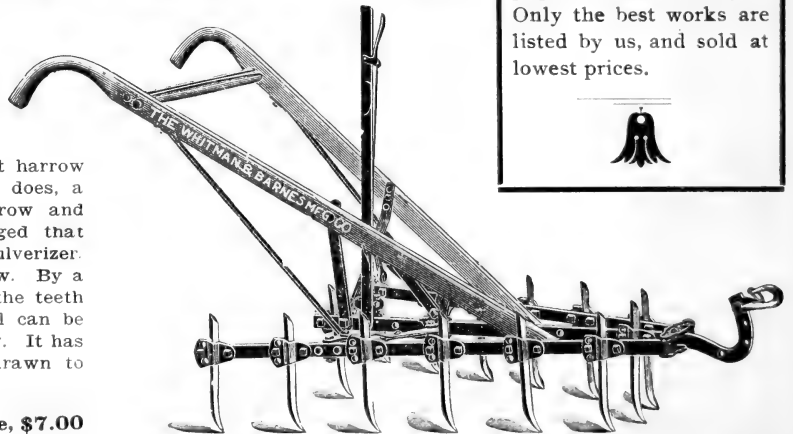
A first-class horse hoe, strong and well made, of the best material.

Regular price, \$9.00; our price, \$7.50.

Western 14-Tooth Steel-Frame Harrow

The most complete and perfect harrow on the market, combining, as it does, a field cultivator and garden harrow and pulverizer. They are so arranged that one end is the cultivator and pulverizer, while the other end is the harrow. By a very simple device the slant of the teeth can be changed so that the tool can be made a perfect smoothing harrow. It has fourteen $\frac{5}{8} \times \frac{3}{4}$ diamond teeth, drawn to a cutting edge on one end.

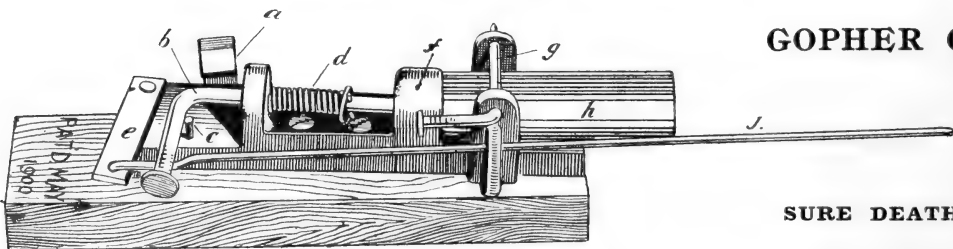
List Price, \$9.00; Our Price, \$7.00

**BOOKS**

For the

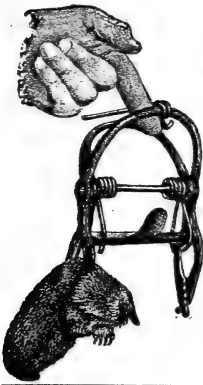
Farm and Garden

Also books on other subjects are offered on page 97 of this catalogue. Only the best works are listed by us, and sold at lowest prices.

**TRAPS.****GOPHER GUN.**

SURE DEATH.

The gopher gun is loaded the same as a breech loading shotgun and then placed in the runway of the mole or gopher. It is furnished with a safety device that prevents premature discharge. Made for 12-gauge shells. The gun is a great success and hundreds have been sold. It can be discharged by a push or a pull and can be set for hawks, coyotes and coons. Price, \$1.25.

"OUT O' SIGHT"**Mole Trap**

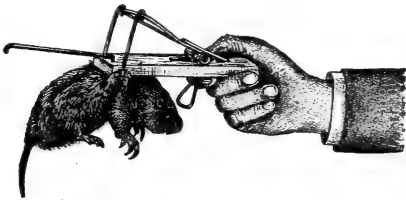
This cut shows the best Mole Trap ever offered, and only has to be tried to be appreciated.

THE SECRET OF MOLE CATCHING

is a GOOD TRAP, and to know their habits.

Full information sent with each trap.

Price, each, \$1.00

"Out o' Sight" Gopher Trap.**NEW PRINCIPLE**

When properly set will catch 19 out of 20.

The Best Trap Made for **POCKET GOPHERS**

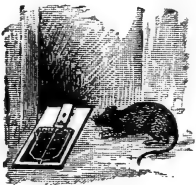
No Danger and Easy to Set. Sure Catch.

Sample trap, sent postpaid for 25 cts.

Full Directions With Each Trap.

Mouse and Rat Trap.

We can honestly recommend these traps.



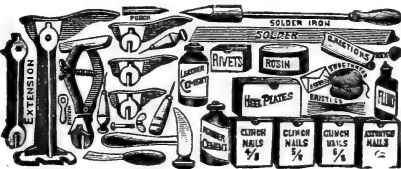
Before Taken.



After Taken.

"Out o' Sight" Mouse Trap, postpaid.....\$0.10

"Out o' Sight" Rat Trap, postpaid..... .25

Home Repair Outfit No. 1.

Every Farmer should have one.

For repairing boots, shoes and harness, and containing a complete soldering outfit. This is not the cheap outfit offered cheap, but the regular complete repair outfit, containing over 70 pieces.

We are overstocked on this excellent article and for this reason, while this stock lasts, we will sell them at reduced prices. Each, \$1.50.

Money Makers.

Agents can make big money selling these traps. If you are in a position to do some canvassing, write us.

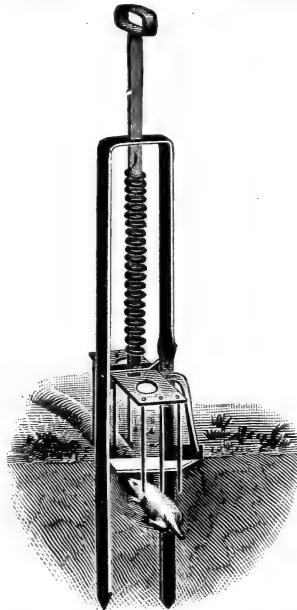
Reddick**Mole Trap.**

In the early part of the season the mole run shows above the ground, and all that is necessary is to press on the runway with the heel, closing it for a few inches, and set this trap directly straddle of the run. Full directions with each trap.

No mole can pass under it and live.

These traps are strong and durable and worth the price to anyone troubled with moles.

Price \$1.00.



REDDICK TRAP.

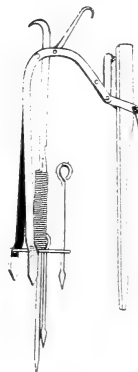
Barnes'**Gopher Trap.**

This trap allows the gopher to work in his own natural way. Everything sets on top of the ground and is out of sight. The gopher springs the trap as he works through the runway by pushing the dirt against the trigger. This releases the spear that hangs directly above the gopher as he works, and it darts down through his body.

This new trap is a great success, and will catch any mole or gopher if properly set. Full directions with each trap.

Price, \$1.75.

We can furnish many testimonials.



BARNES' TRAP.

What buyers say:

I caught 25 gophers in my potato patch with your trap, and must say it is O. K.

SCOTT DUNLAP, Amity, Ore.

Your gopher trap is a great success.

E. C. MERRILL, Independence, Ore.

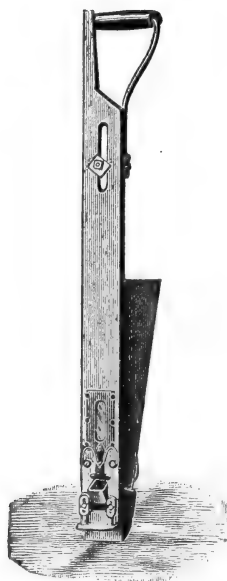
In less than twenty-four hours after getting your trap I caught five gophers. If I could not replace my trap, \$20.00 would not buy it.

J. H. TURPIN, Waterloo, Ore.

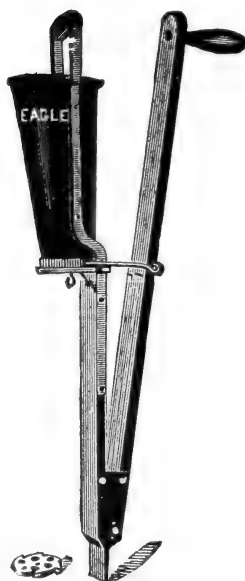
Handy Corn Husker.

If you have any corn to husk, this little tool will do it better, quicker and easier than any other husker we know of.

Each, postpaid, 25c.



BABCOCK



EAGLE

Hand Corn Planters.

Eagle Rotary.

Decidedly the best hand corn planter made, and a very desirable implement for those who have a quantity of corn to plant. It puts the corn exactly where you want it and at a proper depth. It is easily worked and a most satisfactory tool in every way. Price, \$1.50.

Babcock Automatic.

Considered by some to be an improvement on the above type of planter, as it requires but one hand to operate it. The feed is perfect, and with it corn can be planted almost as fast as a man can walk.

Price, \$1.25.

Crescent.

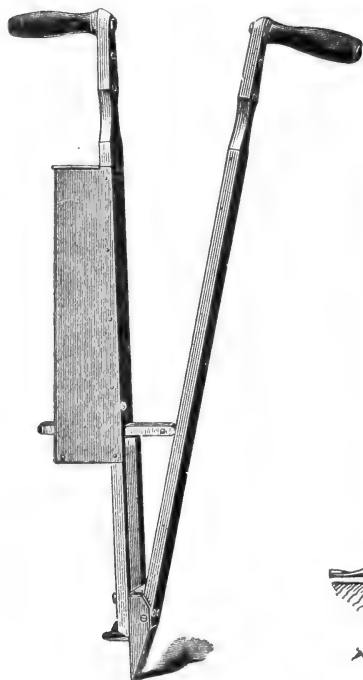
A good reliable corn planter with slide feed. It puts just the right number of kernels to the hill.

Price, \$1.25.

Eureka Potato Planter.

With this planter one man can plant several times as much ground without getting a lame back as can be done by hand. The planter locks itself as it is lifted out of the ground, so that the next potato may be dropped in at once, and opens automatically as the top of it is moved forward in walking.

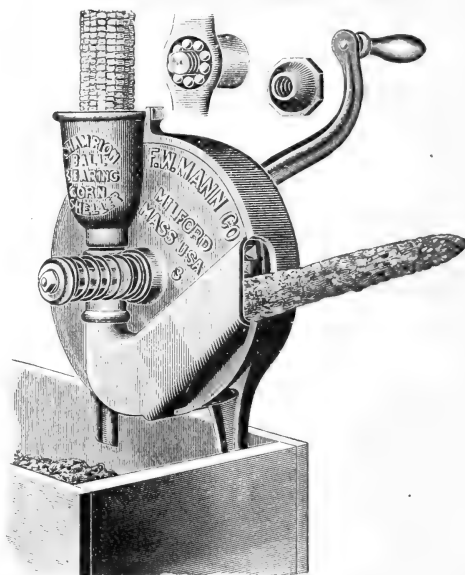
Price, \$1.50.



CRESCENT.

JACKSON-BROS.
G. R. MICH.

POTATO PLANTER.



MANN'S CHAMPION CORN SHELLER

If you have any popcorn or corn to shell, this is the machine you want. Ball-bearing and perfect in every part.

Price, \$3.50.

BLACK HAWK CORN SHELLER.

Well made and very quick in its work.

Price, \$2.50.

The "Clipper" Grain, Seed and Bean Cleaners.

This is without doubt the best seed and grain cleaner on the market today. When it comes to real nice clean work it is far ahead of all the others.

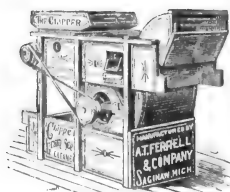
The "Clipper" is especially adapted for making effectual separation of wild oats, cheat, cockle, and all foreign seed from wheat and oats, as well as cleaning the perfect seed. Other manufacturers depend entirely upon screens for this work, and with unsatisfactory results. The "Clipper," however, screens all straw and foreign matter from the grain before it enters the air shaft, and the "Vertical Blast" does the rest. The screens are so arranged as to be in plain view, and of easy access to the operator while machine is in operation.

If you want the best cleaner on the market today, one that is guaranteed to please you, buy "The Clipper."

Seed dealers everywhere use the "Clipper," because they are the best. Descriptive catalogue and testimonials sent on request.

PRICES.—No. 1, \$30.00; No. 2, \$35.00.

We have used "The Clipper" for years ourselves. It's O. K.



NO. 1 CLIPPER

SPRAY PUMPS.

Every grower of fruit, berries or flowers should have a good sprayer or spray pump of some kind; one suited to the work that is to be done. If you want to get the best results you must spray, and spray often. Remember, a person derives the same satisfaction from using a good spray pump that he does from using a good article of any other kind; so when you buy, buy some of the following up-to-date and reliable outfits:

Gould's Pomona.

OUR LEADING BARREL PUMP.

Fig. 1100. "Pomona" Spray Pump has won for itself an enviable reputation. We unhesitatingly offer it as the best orchard spray pump for mounting in barrel. It has great power and capacity. Briefly stated, other points of superiority are:

No leather packings, consequently no hardened and useless valves. All working parts bronze, including plunger, gland, valves, valve seats, etc. Plunger is outside packed. Valves are easily accessible. Air chamber is very large and of steel, free from imperfections of cast iron. Lever long and powerful, with adjustable stroke, three, four or five inches. The mechanical agitator, as shown in cut, is operated by the stroke of the handle, so whenever any liquid is pumped it is thoroughly agitated. Pump is held securely by small anchor located at the bottom of barrel and by adjustable clamp plate at the top. Our new plate will admit insertion or withdrawal from the barrel without removing the agitator.

Pump projects but little above top of barrel, and is not caught by branches.

OUTFIT A.—Pump only\$15.00

OUTFIT B.—Pump with 10 feet $\frac{1}{2}$ -in. best spray hose, 1 Vermorel nozzle, 1 8-foot bamboo extension, with globe valve, all complete\$19.25

OUTFIT C.—Just the same as Outfit B, except that we furnish a good hardwood barrel and mount the outfit\$21.75

OUTFIT D.—This is our regular Pomona outfit, the best barrel pump outfit that can be bought. It consists of 1 No. 1100 pump with 2 15-foot leads of best 4-ply spray hose, 2 Vermorel or Seneca nozzles, 2 8-foot bamboo extensions, with globe valves, all in working order and mounted on barrel.....\$25.00



Fig. 1100.

What E. L. Smith, the Hood River Apple Grower, Says:

"Spraying is the first essential of successful apple-growing, or at least it is the thing without which success in apple-growing is not possible."



Fig. 1100. "THE FRUITALL."

Fig. 1188. "Fruitall" Spray Pump is made on the same general lines as our now famous "Pomona." It is, however, made lighter and of smaller capacity. All working parts, including plunger, gland, valves, valve seats, and strainer, are made of brass. Regularly fitted with double wing paddle agitator, same style as used on "Pomona" and which has proved to be the best type. Pump is held in barrel by anchor at bottom and adjustable clamp at top, fitting over end of stave. Not made for side of barrel.

OUTFIT A.—Pump only.\$11.00

OUTFIT B.—Pump with 15 feet 4-ply spray hose and one Vermorel nozzle, all complete. \$14.00.

SENTINEL, JR.

Fig. 1316. Gould's "Sentinel, Jr." double acting spray pump is designed especially for, and meets the requirements of, the best orchardists and orange growers desiring quick work at high pressure. Notwithstanding the large capacity of this pump, one man can operate it constantly against over 100 pounds pressure, without undue effort.

Six nozzles are often used, with several leads of hose.

Piston is easily and quickly repacked, and all valves easily accessible.

Piston, piston-rod, valves, valve seats and cylinder lining are brass.

Piston-rod is outside guided, so that it runs perfectly straight.

Pump ordered without hose has one 1-inch suction and two $\frac{1}{2}$ -inch discharge brass hose couplings, also brass strainer. Brass "Ys" for fitting two leads of discharge hose on a side furnished when ordered. Air chamber 5x30 inch.

OUTFIT A.—Pump only\$27.50

OUTFIT B.—Pump with 5 feet $1\frac{1}{4}$ suction hose, two 25-foot leads 4-ply rubber hose, two bamboo extensions, globe valves and Vermorel nozzle..\$39.00

Add \$2.50 to these prices if pressure gauge is wanted.

Don't wait to order your Pump until you are ready to spray.

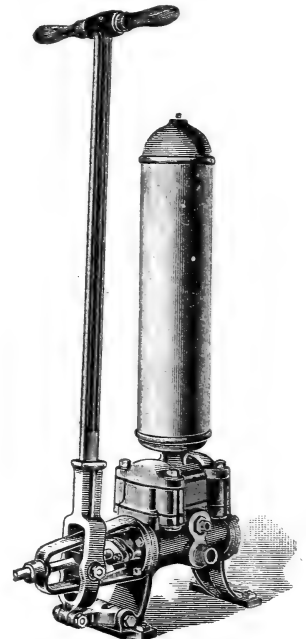


Fig. 1316.

THE MONARCH.

Fig. 1318. "Monarch" has two vertical brass plungers operated by a single lever so arranged as to give powerful leverage and heavy pressure. One man can maintain 125 lbs. pressure and pump a large quantity of liquid.

Outside packed plungers can be re-packed without removing plungers.

Brass glands and gland followers. Brass valves, valve caps and valve seats easily accessible.

Malleable lever may be operated in a vertical or horizontal position.

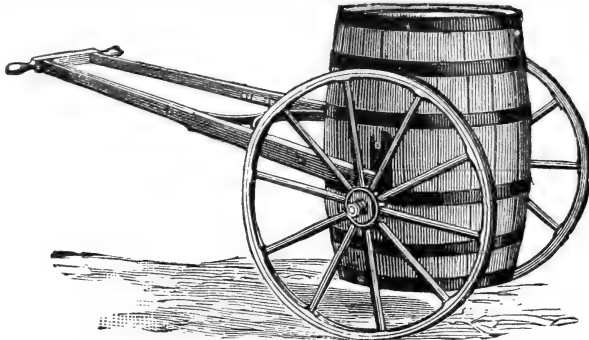
Pump ordered without hose is supplied with a brass strainer, also $\frac{3}{4}$ -inch brass hose coupling on suction and $\frac{1}{2}$ -inch coupling on discharge.

OUTFIT A.—Pump only\$22.50

OUTFIT B.—Pump with 5-foot $1\frac{1}{4}$ suction hose, two 25-foot leads 4-ply rubber hose, two nozzles and two bamboo extensions with globe valves.....\$35.00

Fig. 963, Sentinel.—Large double acting spray pump. Price\$25.00

For full description of Fig. 963, as well as many other pumps, also large POWER SPRAYERS, send for descriptive spray pump catalogue. Let us know what kind of an outfit you want and we will quote you a price, freight paid to your nearest station.



GOULD'S BARREL CART.

Fig. 1133. Improved barrel cart is found useful both for spraying and as watering cart. Any of our barrel spray pumps can be mounted in it. Running gear, when purchased separately, may easily be attached to any good barrel. Wheels are made of iron, have 4-inch tires. Barrel can be picked up and deposited by simply elevating the handles.

Fig. 1133 is like cut shown, except that it has iron wheels and a rest for handles.

Cart without barrel\$12.00 Cart complete, with barrel\$14.00

BUTLER HAND CART.

This cart is made with a platform box set on a dropaxle, so as to be near the ground. It can be used as a barrel cart or for hauling fruit, vegetables, wood, etc., about the place. The best all-around cart. Strong and well made. Iron wheels. Price: No. 1, \$10.00; No. 2, \$11.75; No. 3, \$14.00 \$1.50 extra for 3-inch tires.

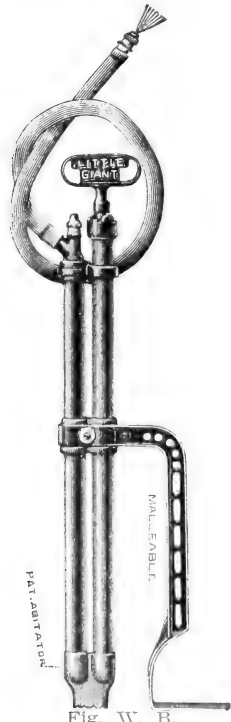


Fig. W. B.



Fig. 561 1-2.



Fig. 1129.



Prize.



Fig. 1318.

Fig. 1129. Brass garden and spray pump, is especially designed for spraying in gardens and greenhouses. The pump is double-acting in effect; ball valves, proof against the action of acids and oils. Foot piece is malleable iron. Our "Seneca" nozzle is furnished with pump. Pump has no suction hose, but is set in pail or bucket, with foot-rest outside. Price, complete\$1.75

Fig. 561 1-2. Brass bucket pump, arranged with suction and discharge hose and spray nozzle. With this nozzle a solid stream or a fine spray may be thrown. Pump has brass cylinder, plunger and rod. Pump is particularly adapted for washing windows and wagons, spraying flowers in conservatories, gardens etc. Its weight is only eight pounds. Price, complete\$6.50

PRIZE BUCKET SPRAY PUMP.—All working parts are brass, bronze ball valves, and malleable iron foot-rest. A splendid pump at a low price.\$3.50

Fig. W. B.—Brass Bucket Spray Pump.—A first-class pump for spraying small trees and light work in general. Has a long air chamber and throws a continuous spray. Price, with bucket attachment instead of foot rest.....\$3.25

THE NEWEST AND LATEST SPRAYER OUT "The Standard" Spray Pump.



Simplest and handiest sprayer made.

It is neat in appearance, substantially built from heavy gauge brass, provided with solid brass ball valves. It will neither wear out nor cause trouble. It has no leathers, washers or suckers, no castings to rust, no leaking joints, nothing to get out of order. For spraying small trees, bushes or gardens, for white-washing or disinfecting chicken houses, barns, etc., it has no equal. The Standard pump is provided with two nozzles, interchangeable. No. 1 throws a fine spray; No. 2 throws a solid stream; No. 1 attached direct to pump throws a coarse spray. Price:

**Standard Pump, complete with two nozzles
and three feet of hose. .\$.450**



THE NEW WAY.

Showing the Standard Pump attached to barrel with 30 feet of hose, enabling the operator to walk around without moving the barrel, covering the entire tree **FROM THE GROUND.**

An ideal orchard sprayer at small cost.

THE PRIZE KNAPSACK PUMP.

A knapsack and bucket sprayer combined, 5-gallon galvanized iron tank, brass pump with bronze ball valves. Very convenient and serviceable. Price\$7.50

SMITH'S PATENT FORCE PUMP.

Just the thing for whitewashing your hen-house, washing windows and other light work. Fine for the ladies, and children like to sprinkle the garden with them. Tin; four nozzles. Price.....\$1.00

ASPINWALL SPRAYER.

One of the most convenient and economical for using liquid lice killers, sprays, etc. Nothing cheap but the price, 75c.; charges paid. \$1.00.

DOUBLE ASPINWALL.

85c.; charges paid, \$1.15.

LIGHTNING INSECT EXTERMINATOR.

This exterminator is made with double tubes, throwing two large sprays at one time. The reservoir holds one quart, is made of galvanized iron, and will not rust. It is a light, handy sprayer, with great capacity.

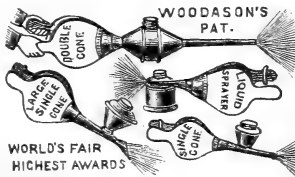
For spraying vines, shrubs, plants and cattle (to keep off flies), and the interior of henneries, will save in spray material the price of the sprayer, in a single day's use.

Galvanized, 75c.; by Express, charges paid, \$1.00; Brass, \$1.00 by Express, charges paid, \$1.30.

For Fly Bouncers, etc., see Index.

WOODASON'S LIQUID AND POWDER SPRAYER.

For powder, small size	\$1.50
For powder, large size	2.00
For powder, double cone	3.00
For liquid, small	1.50
For liquid, large	2.00



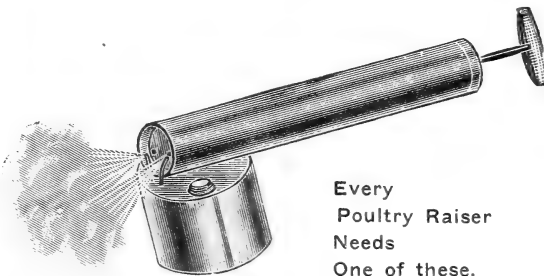
WOODASON'S.



ASPINWALL.



SMITH FORCE PUMP.



LIGHTNING INSECT EXTERMINATOR.

Every
Poultry Raiser
Needs
One of these.

DAVOL PLANT SPRINKLERS



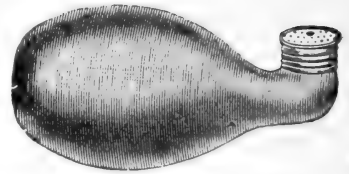
DAVOL.

These are quite a superior article and possess a distinct advantage in the hard rubber tips. The bulb is of smooth, firm quality white rubber. The tips, well fastened at the neck, cannot be forced out, and being hard rubber, will not rust or corrode. A turn of the wrist unscrews the tip to fill bulb by suction.

No. 2, 6-oz., straight tip.....	\$.70 each, postpaid, \$.80
No. 3, 8-oz., straight tip.....	.75 each, postpaid, .85
No. 4, 11-oz., straight tip.....	.90 each, postpaid, 1.00
No. 6, 6-oz., bent tip.....	.75 each, postpaid, .85
No. 7, 8-oz., bent tip.....	.90 each, postpaid, 1.00
No. 8, 10-oz., bent tip.....	1.15 each, postpaid, 1.25

PERFECTION

No. 1, angle neck, 60c; by mail, 65c.
No. 3, 90c.; by mail, \$1.00.



PERFECTION SPRAYER.

Nozzles, Connections and Hose Supplies.

Fig. 81. "Seneca" spray nozzle, gives a very wide spray, covering a great area. The discharge can be nicely graduated. The nozzle may be cleaned by turning plug across the opening. The discharge is fan-shaped, and can be instantly shut off when not required, thus preventing waste of liquid. Recommended for orchard work. Price\$1.00

Fig. 55. "Vermorel" spray nozzle with degorger affords a conical discharge, adapting it for close-range spraying of vines, trees, etc. It is readily cleaned in operation by pulling or pressing the degorger against limb of tree, or pressing with thumb. A very popular nozzle everywhere. Price\$1.00

Fig. 1103. Two-Discharge "Vermorel" Nozzle covers twice the surface sprayed by the single nozzle. It is without doubt the best nozzle for general orchard work. Price\$2.00

Fig. 1104. Three-discharge "Vermorel" nozzle. The advantage of this nozzle will readily be appreciated where a large amount of spraying is to be done. Price\$2.75

Fig. 51. "Cyclone" spray nozzle, gives spray similar in form to that of the "Vermorel." Unlike "Vermorel," the "Cyclone" has no "degorger." Price50c

Fig. 52. "Pacific Cyclone," differs from Fig. 51 only in that it has end discharge. Both are cut for 1/4-inch pipe. Price60c

Bean Cyclone\$1.00

Bean Duck Bill\$1.00

Hop. Fig. 5531.50

Three-Way Cock. Fig. 336.....1.75

Nozzle Coupling and Hose Stock, Fig. 749. Price.....25c

Nozzle and Hose Coupling, Fig. 966. Price30c

Fig. 965. Bordeaux Spray Nozzle Use this nozzle for whitewashing. No. 36 will throw a fine fan-shaped spray and will readily free itself, should it become clogged, by turning the cock handle. It will throw a solid stream or may be shut off altogether, as desired. It is especially recommended for use in connection with the Bordeaux Mixture. Price, each\$1.00



Fig. 55.



Fig. 51.



Fig. 965.

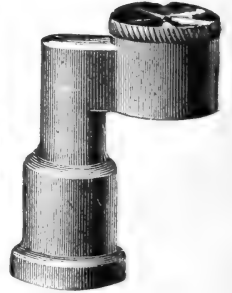


Fig. 52.



Fig. 966.



Fig. 749

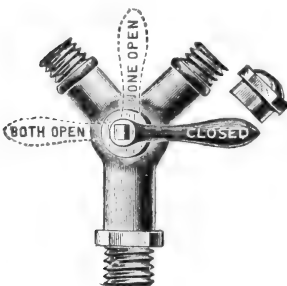


Fig. 336

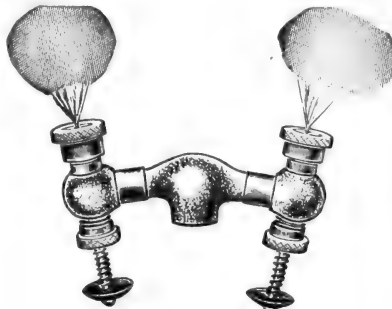


Fig. 1103.

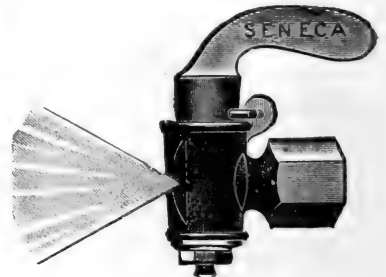


Fig. 81

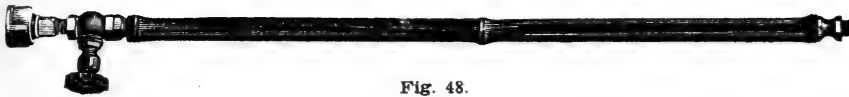


Fig. 48.

Fig. 48. Bamboo Extension, has iron pipe inside of bamboo, making an easy and convenient extension to handle. Has stop cock fitted for $\frac{1}{2}$ or $\frac{3}{4}$ -inch hose. Other end cut $\frac{1}{4}$ -inch pipe thread to fit our spray nozzles.

	Bamboo.	Iron.
2 to 4 feet, with Globe Valve, each.....	\$1.50	\$1.00
6 feet, with Globe Valve, each.....	1.75	1.15
8 feet, with Globe Valve, each.....	1.75	1.25
10 feet, with Globe Valve, each.....	2.00	1.35

Fig. 753. Globe Valve. Can be used on any of our pumps for closing off one nozzle at a time. $\frac{1}{4}$ inch round.....Price, 75c.

Fig. 49 1-2. Brass "Y", is cut $\frac{3}{4}$ -inch female thread on inlet, and $\frac{1}{2}$ or $\frac{3}{4}$ -inch male thread on lateral discharges.....Price, 75c.



Fig. 971.
Extension Pole Holder.
Price, 25c.



Fig. 753.



Fig. 49 1/2



BRASS YERDON'S BANDS.

$\frac{1}{2}$ -inch, postpaid, each.....	5c.
$\frac{3}{4}$ -inch, postpaid, each.....	5c.
Per dozen.....	50c.



BRASS HOSE BANDS.

For $\frac{1}{2}$ or $\frac{3}{4}$ -inch hose.

Each, postpaid.....	5c.
Per dozen.....	45c.

COUPLINGS.

$\frac{1}{2}$ -inch.....	25c.
$\frac{3}{4}$ -inch.....	25c.
1 $\frac{1}{4}$ -inch.....	50c.
2-inch.....	\$1.35



CALDWELL BANDS.

$\frac{1}{2}$ -inch, per doz.....	25c.
$\frac{3}{4}$ -inch, per dozen.....	30c.

Bend around the hose, tighten with pliers and you have a secure fastening.

CINCH BAND.

No tools needed. Put a nail through one loop, twist up; then in the other side and cinch fast. Bend down loops and you have a tight, smooth fastening.

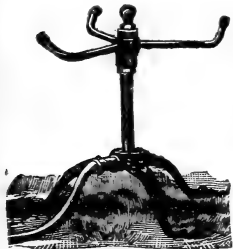
Each, postpaid.....	5c.
Dozen.....	50c.

HOSE WASHERS.

$\frac{1}{2}$ -inch, per dozen.....	10c.
$\frac{3}{4}$ -inch, per dozen.....	10c.
1 $\frac{1}{4}$ -inch, per dozen.....	25c.
2-inch, per dozen.....	50c.

Sprinkling Nozzles.

Gem Nozzle, adjustable.....	60c.
Crescent Nozzle, adjustable.....	50c.
Plain Nozzle.....	50c.



GOLDEN GATE.

Lawn Sprinklers.

Golden Gate.....	\$1.00
Rain Maker.....	.50

Adjustable Lawn Sprinkler. Screws on to hose couplings, throws the water high or low, coarse or fine; very handy and convenient. Price, 25c.

Mending Tube, for joining hose together, 5c. each.

SPRAY AND GARDEN HOSE.

This season we are offering our customers a very complete and reliable line of spray and garden hose. We buy in very large quantities, direct from the manufacturers, which places us in a position to quote the following very low prices. Most of the brands we offer are manufactured especially for us and can be obtained nowhere else. Buy hose that is guaranteed

Hose For Spray Pump.

Our experience of the past season has led to a number of improvements in our brands of hose, especially the double thickness of the tube in our spray hose. This has almost as thick a tube as steam hose and we guarantee it for the hardest service. The chemical solution will not penetrate the double thick tube and destroy the hose.

MOUNT HOOD. 4 Ply, Double Tube.

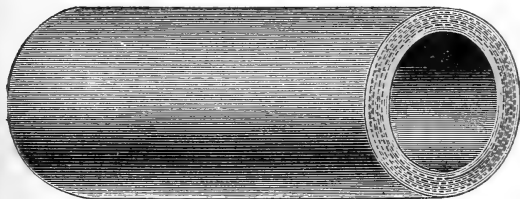
Have tested this hose to 240 pounds pressure without injury. Made of a high grade rubber and long fibre cotton duck woven especially for service. Price per foot, $\frac{1}{2}$ inch.....16c.

POMONA. 4 Ply, Double Tube.

A good grade of spray hose and fully strong enough for any hand power barrel pump. Price, per foot, $\frac{1}{2}$ -inch.....13 1/2c

SENTINEL. 7 Ply, Duck Hose.

No hose of this construction equals this brand. Possesses wonderful strength and lasting qualities. Price per foot. $\frac{1}{2}$ -inch.....12 1/2c



SEAMLESS TUBE GARDEN HOSE.

Spray and Garden Hose—Continued.

Rubber Garden Hose.

The seamless tube in all our garden and spray hose is a most important feature, while the even thickness throughout insures a reliable hose.

MT. HOOD.

A guaranteed high service hose.
Per foot, 3-ply, $\frac{1}{2}$ -inch.....13 $\frac{1}{2}$ c.
Per foot, 3-ply, $\frac{3}{4}$ -inch.....16c.

NOTIER, 5-PLY.

A high grade garden hose; good value; also good for spray pumps.
Per foot, $\frac{1}{2}$ -inch, 5-ply.....12 $\frac{1}{2}$ c.

MT. ADAMS.

An excellent hose at a medium price, none better.
Per foot, 3-ply, $\frac{1}{2}$ -inch.....8 $\frac{3}{4}$ c.; $\frac{3}{4}$ -inch, 10 $\frac{3}{4}$ c.

MT. ST. HELENS.

A good hose at a low price.
Per foot, 3-ply, $\frac{1}{2}$ -inch.....7 $\frac{1}{2}$ c.; $\frac{3}{4}$ -inch, 9c.

COMPETITION.

True to name, but worth the money.
Per foot, 3-ply, $\frac{1}{2}$ -inch.....5c.; $\frac{3}{4}$ -inch, 6c.



**COTTON
HOSE.**

COTTON GARDEN HOSE.

The demand for a light weight, yet strong and durable hose has been fully met by our new process rubber lined Cotton Hose.

The rubber lining is of best quality.
Made in lengths of fifty feet, coupled before shipment. Twenty-five cents for couplings charged on $\frac{1}{2}$ and $\frac{3}{4}$ -inch hose in 25 feet lengths.

White Cotton Good value for money.
Per foot..... $\frac{1}{2}$ -in., 7 $\frac{1}{2}$ c.; $\frac{3}{4}$ -in., 9c.

Phoenix. Very best cotton hose, extra heavy, mildew proof.
Per foot..... $\frac{1}{2}$ -in., 12c.; $\frac{3}{4}$ -in., 13c.

SUCTION HOSE.

Agricultural. Light weight.
Per foot..... $\frac{1}{4}$ -in., 30c.

Pomona. Wire wound. Good quality.
Per foot..... $\frac{1}{4}$ -in., 45c.

Celtic. Smooth bore. The spiral wire used in manufacturing is embedded in the wall, forming a perfectly smooth interior, thereby protected from the action of chemicals, also avoiding all friction and corrosion.

We furnish it with all Sentinel pump outfits.
Price, per foot, $\frac{1}{4}$ -inch.....55c.
Other sizes suction hose quoted on request.

Reliable Fruit Jar Rings.

No loss of fruit with these. A nice, clean, white, odorless ring of excellent quality.

Put up in envelopes containing one dozen Reliable rings.

Wide, for Mason jars, postpaid.....15c.

SPRAY MATERIAL AND WASHES.

FOR DESTROYING INSECTS, SCALE, ETC.

We give below a list of washes recommended by the State Board of Horticulture for destroying insect pests on trees, etc.; also other washes and ingredients for same use.

DUNN'S PREPARED SPRAYS.

NO. 1.—Winter Spray for San Jose Scale and Peach Curl Leaf. Ingredients: Salt, lime, sulphur, etc. For winter use, 1 lb. to 3 gals. of water; for summer, 1 lb. to 8 gals. of water. Price, 1 lb., 10c.; 25 lbs. to 50 lbs., 5c. per lb.; 100 lbs., or more, at 4 $\frac{1}{2}$ c. per lb.

NO. 2.—For San Jose Scale and Woolly Aphis. Ingredients: Sulphur, lime, blue vitriol. For winter use, 1 lb. to 2 $\frac{1}{2}$ gals. For a preventive, 1 lb. to 5 or 6 gals. For summer, 1 lb. to 8 or 10 gals. For Codlin Moth, add to 8 or 10 gals. of solution a full $\frac{1}{2}$ oz. of Paris Green or London Purple. Price, 1 lb., 10c.; 25 lbs. to 50 lbs., 6c. per lb.; case of 100 lbs. or more, 5c. per lb.

NO. 5.—Whale Oil Soap. Summer Spray for Hop Louse and Green Aphis. Use 1 lb. to 7 gals. of water. Price, 1 lb., 10c.; 25 to 50 lbs., 5 $\frac{1}{2}$ c. per lb.; case of 100 lbs. or more, 5c. per lb.

NO. 7.—Bordeaux Mixture for Fungi. Ingredients: Sulphate of Copper and lime. For winter use use 1 lb. to 2 gals. of water; for summer, 1 lb. to 4 gals. of water. Price, 1 lb., 10c.; case 25 lbs. to 50 lbs., 7c. per lb.; case of 100 lbs. or more, 6c. per lb.

NO. 7.—Bordeaux in Liquid Form. We also have this valuable remedy prepared in liquid form. Directions are attached to each can. One gallon of this condensed liquid makes 50 gallons of spraying liquid. It is better and cheaper than the ordinary home-made mixture. Quart, 60c.; 2 qts., \$1.00; gallon, \$1.50.

Apis Punk. Is a special preparation of nicotine for the extermination of green and black fly, thrip, etc., in greenhouses and conservatories. Full direction with each package. Per roll, 5c.; box of 12 rolls, 60c.; case of 12 boxes, \$6.50.

Arsenic Soap. To kill aphids on plants or bushes. Per can.....25c.

Babbitt's Lye. 10c. per can; 1 doz. cans, 90c.

Bluestone. Used in many solutions. 1 lb., 10c.; 10 lbs., 80c.; 100 lbs., market price.

Buhack. An effective insect powder. Per ounce, 10c.; $\frac{1}{4}$ lb., 25c.; 1 lb., 75c.

Fostite. Copper sulphate, soapstone powder, mildew or fungus. Per pound, 15c.

Fir Tree Oil Soap. The best thing we know of for killing Green Aphis on shrubbery and garden plants. $\frac{1}{2}$ lb. can, 25c.; by mail, 35c.; 2 lbs., 75c.

Hammond's Blue Shot. Best thing for destroying cabbage and turnip flea, potato bugs, currant worms, etc. Per pound, 15c.; 5 pound package, 50c.

Hammond's Grape Dust. To prevent mildew on roses, grapes, gooseberry. Per pound, 15c.; 5 pound package, 50c.

Heliebore. An excellent protection from currant and gooseberry worm, grape slugs and caterpillar. $\frac{1}{4}$ pound, 15c.; $\frac{1}{2}$ pound, 20c.; 1 pound, 35c.

Kerosene Emulsion. An excellent spray for woolly aphid and clover mite. 1 quart, 60c.; 2 quarts, \$1.00; 4 quarts, \$1.50;

Lime......Market Price.

London Purple......pound, 30c.

Rosin......1 lb., 10c.; 100 lbs., \$5.00.

Paris Green. Mixed at the rate of 1 pound to 200 gallons of water it will prove effective against all chewing insects. 1 pound package, 35c.; 2 pound package, 65c.

Quassia Chips. Used with whale oil soap makes a good remedy for lice on cabbage, cauliflower, etc. 1 pound, 10c.; 10 pounds, 70c.; 100 pounds, market price.

Rose Leaf. (tobacco extract).—A perfectly pure concentrated extract of tobacco, very effective for destroying all insects and scale on plants. Pint, 30c.; quart, 50c.

Sal Soda. per pound, 10c.

Salt......Market Price.

Sulphur, Crude......Market Price

Sulphur, Powder. pound, 5c.; 100 pounds, market price.

White Arsenic. 1 pound, 15c.

Tobacco Stems. For fumigating plants infested with green fly. Per pound, 3c.; per 100 pounds, \$2.50.

Tobacco Dust. If dusted on while foliage is moist it destroys rose lice, cabbage and turnip fleas, etc. Spread on ground it keeps off earth insects. Per pound, 10c.; 10 pounds, 60c.; 100 pounds, \$4.50.

Tobacco and Sulphur Powder. Destroys slugs and earth insects. Per pound, 15c.; per 5 pound package, 50c.

All Powders should be applied with Powder Blower. See page 77.

DIAMOND BRAND FERTILIZERS. DIAMOND BRAND

We are the largest dealers and carry the most complete stock of Fertilizers and Fertilizing Materials in the Northwest. We solicit correspondence and orders from large buyers.

The best results from the use of Commercial Fertilizers will be derived by those who apply them in the early spring. It is very desirable that they be well mixed with the soil, otherwise they cannot be reached by the roots. No positive rule as to quantity can be given. The average amount is 300 to 500 pounds per acre; but market gardeners often use three to four times that amount and find that it pays.

Results Obtained by Using Diamond Brand Fertilizer ON VEGETABLES AND GARDEN TRUCK.

The yield is much greater, and besides it advances maturity from one to three weeks. Many gardeners would not think of growing vegetables without it; they have tried it and found it better than any other.

ON POTATOES AND ROOT CROPS.

Potatoes require lots of potash, and our No. 2 is just the right fertilizer to greatly increase the yield. One man last year near Portland almost doubled his crop with it. You could easily tell what rows he used it on almost as far as you could see the field, by reason of the larger, thriftier vines.

ON TREES AND SMALL FRUITS.

The yield will be greatly improved and the quality much superior. One trial will convince you.

NO. 1. COMPLETE FERTILIZER.

An all-around fertilizer for ordinary farm and garden products. Contains high percentages of fertilizing properties and is highly satisfactory to all who use it. Analysis.—Nitrogen, 2 per cent.; phosphoric acid, 6 per cent.; potash, 8 per cent. Prices, per 100 lbs., \$2.00; 500 lbs., \$9.50; 1000 lbs., \$18.00; ton, \$35.00.

NO. 2. VEGETABLE AND ROOT.

Use this fertilizer on all garden and root crops. Highly recommended by market gardeners: It is much richer than No. 1 and is the best fertilizer on the market for potatoes. Analysis.—nitrogen, $3\frac{1}{2}$ per cent.; phosphoric acid, 7 per cent.; potash, 9 per cent. Price, per 100 lbs., \$2.50; 500 lbs., \$12.00; 1000 lbs., \$23.00; ton, \$45.00.

NO. 4. FRUIT FERTILIZER.

This excellent fertilizer is made expressly for fruits. Its use for fruit trees, vines and shrubs of all kinds will be followed by a great improvement in the quality and increase in quantity. It lasts for several years, and is far better for the plant or tree than manure, and gives greater returns. Analysis.—nitrogen, 2 to 3 per cent.; phosphoric acid, 7 per cent.; potash, 9 to 10 per cent. Price, per 100 lbs., \$2.25; 500 lbs., \$10.00; 1000 lbs., \$19.00; ton, \$37.50.

NO. 5. DIAMOND LAWN FERTILIZER. ODORLESS.

A fertilizer which we have found to be never failing in inducing a rapid and rich green growth to the lawn. It meets the wants of hundreds of patrons who desire a clean, portable and convenient lawn dressing. Fifty to one hundred pounds is sufficient to go over a city lot, or double for forming a new lawn. Remember, it contains no weed seeds, like barnyard manure. Price, 25 lb. sk., \$1.00; 50 lb. sk., \$1.50; 100 lb. sk., \$2.50.

NO 10 HOP GROWER.

A fertilizer made especially for hops, very rich in potash, and if used freely in hop yards it will double the yield and increase the quality of the hops. Be sure that you get "Diamond Brand." Analysis.—Nitrogen, 3 per cent.; phosphoric acid, 8 per cent.; potash, 12 per cent. Price, 100 lbs., \$2.50; 500 lbs., \$12.00; 1000 lbs., \$23.00; ton, \$45.00.

PURE BONE MEAL.

Animal bone finely ground is one of the very best and most economical fertilizers, especially at present low prices. A most valuable enricher of the soil, and crop producer. Our stocks are absolutely pure. 100 lbs., \$1.75; ton, \$30.00.

BONE FLOUR.

Acts quickly, and one of the very best for floral culture. 100 lbs., \$2.75.

LAND PLASTER, OR GYPSUM.

Made from pure Gypsum, absolutely free from clay, sand or other foreign matter, 99 per cent. pure. For a first-class fertilizer at a low cost, the "Oregon Land Plaster" is not equaled. Especially valuable, and will have a marvelous effect, on clover and all grass crops. 100 lbs. sack, 75c.; ton, \$12.00.

FISH GUANO.

This is the very best quality of Guanos, containing high percentage of nitrogen, phosphoric acid and other fertilizing qualities. 100 lbs., \$2.00; ton, \$35.00.

SUPER-PHOSPHATE.

This is a first-class article and acts in a remarkably short time. 100 lbs., \$2.50.

NITRATE OF SODA.

For immediate results Nitrate of Soda is the very best for stimulating and forcing the growth of plants or any other crop. 100 lbs., \$3.00. Write for ton price.

SULPHATE OF AMMONIA.

Is one of the most concentrated forms in which Ammonia can be applied to crops. 8c. per lb. Write for price on large quantity.

Potash.

Is one of the most important fertilizing elements. Every farmer should find out by practical experiment what his soil needs and avail himself of the large profit to be derived from the use of potash and other commercial fertilizers. We have a large stock of Potash Salts, direct from the mines at Stassfurt, Germany, and are in position to furnish them at reasonable prices.

Muriate of Potash lb., $3\frac{1}{2}$ c.; sack, 224 lbs., \$6.25
Sulphate of Potash 1 lb., $3\frac{3}{4}$ c.; sack, 224 lbs., \$7.00
Kanit 1 lb., $1\frac{1}{2}$ c.; sack, 224 lbs., \$2.25
We can furnish pamphlets on Potash, Nitrate of Soda, and General Gardening, etc., free.

BOWKER'S PLANT FOOD.

A first-class fertilizer for house plants. $\frac{1}{5}$ lb. pkg., postpaid, 25c.; 1 lb. pkg., 40c.; postpaid, 55c.

Diamond Brand Flower Food.

A safe, clean and high grade fertilizer, free from disagreeable odor, prepared especially for feeding plants grown in pots. It is a wonderful invigorator, producing luxuriant, healthy growth, foliage of rich texture and larger and more brilliant flowers.

It contains in a highly concentrated form all of the ingredients of plant food essential to the highest development of the plants and flowers. It is very soluble and is readily assimilated, so that marked improvement is usually noticed in ten days' time. It is fine and dry, clean and easy to apply, either sprinkled over the surface of the soil as a top dressing or dissolved in water (stirring well). Detailed directions on each package.

Half pound box, 15c.; by mail, 25c.

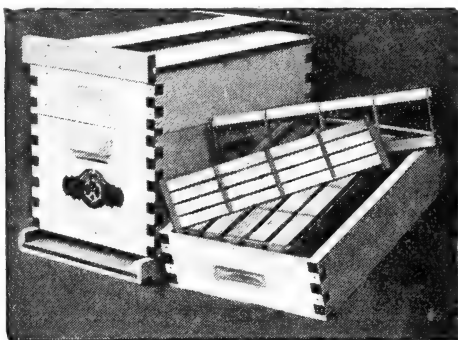
One pound box, 25c.; by mail, 40c.

BEE SUPPLIES.

Our stock of Bee Supplies this season is larger and better than ever. We have added a complete line of the famous A. I. Root Dovetailed Hives and supplies. Our stock also includes a full assortment of the articles necessary for handling bees in an up-to-date manner. We give herewith a list which includes most of the principal articles that are used by bee keepers. We would request anyone who is specially interested in this line to write us for our complete catalogue of Bee Supplies, the new edition of which will come out in the spring.

Dovetailed Hives and Fixtures.

The Dovetailed Hive is taking the lead over all hives, as it contains many of the most desirable features for the rapid handling of the bees, and is one of the cheapest hives manufactured.



DOVETAILED HIVE. A E 6 4 P-8.

This combination contains foundation starters for both the brood frames and sections, although it cannot be shown in the cut. See figures and numbers below.

ROOT'S HIVE COMBINATIONS

and How to Understand Them.

To accommodate various localities and bee-keepers of different preferences, we have a large number of different combinations; and each combination is indicated by a series of letters and figures. A glance at the following table showing the meaning of each letter or figure in alphabetical and numerical order will make all plain.

- A Danz. bottom.
- E Excelsior Cover.
- G The Cable Cover.
- I super for Ideal plain sections $3\frac{3}{4} \times 5$.
- M. super 4×5 plain sections for Danzy hive.
- P super equipped for plain $4\frac{1}{4}$ sections.
- S super for $4\frac{1}{4}$ beeway section, old style.
- 2 super with section holders, separators or fences, but no sections or foundations.
- 4 super with section-holders, separators or fences, sections and foundation starters.
- 5 hive body or brood chamber, with frames and division board, but no starters.
- 6 hive body or brood chamber with frames, division board, and foundation starters.

When the figures are doubled it indicates that two of the articles are called for. For instances, 22P means two supers with plain section-holder and fences.

If you desire a Danz bottom-board, Excelsior cover, 8-frame dovetailed hive with frames, foundation and super with section-holders, $4\frac{1}{4}$ plain sections, fences and foundation, the number would stand thus: AE64P8.

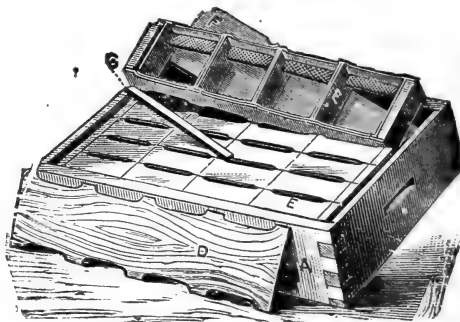
If you wish two supers, in place of the one 4 you would add another figure 4, and the whole would read for 8-frame hive, AE644P8; or, if you wanted this same combination without foundation or sections, the designation would be AE522P8.

Root's 8-Frame Hives.

PRICES:

HIVES.	Each	K. D. in Flat.		Wt. of 10.
	Nailed.	5	10	
AE or AG. 5 hive.....	\$ 1.55	\$ 6.25	\$12.00	190
AE or AG. 6 hive.....	1.70	6.90	13.25	195
AE or AG. 52 hive.....	2.00	8.60	16.75	260
AE or AG. 64 hive.....	2.30	10.00	19.50	280
AE or AG. 522 hive.....	2.55	11.00	21.50	320
AE or AG. 644 hive.....	2.95	13.00	25.75	350
AE or AG. 55 hive.....	2.40	10.50	20.50	320
Bottom—				
A bottom.....	30	1.40	2.70	40
Cover—				
E or G cover.....	35	1.70	3.30	40
Empty Body—				
Empty body, $9\frac{1}{2}$ in deep, with tin rabbets.....	60	2.70	4.90	80
5 body, with frames and division board.....	90	4.20	8.00	130
6 body, same as 5 plus foundation.....	1.00	4.70	8.90	135
Supers—				
Shallow super with flat tin....	35	1.60	2.95	40
No. 2 P. S. or I super.....	65	2.65	5.00	65
No. 4 P. S. or I super.....	75	3.40	6.50	75

Dovetailed Supers.



Designated as 4, with Slotted Separators.

No.	Nailed or K. D.	Packed In flat.		Wt. of 10
	1	5	10	
1.....	\$0.70	\$3.25	\$6.25	75
1-B.....	.70	3.25	6.25	75
1 Cedar.....	.60	2.75	5.25	75
2.....	.60	2.50	4.75	65
2-B.....	.60	2.50	4.75	65
2 Cedar.....	.50	2.25	4.00	60
O-Empty.....	.35	1.60	3.00	40

For description of super, see corresponding number describing hives.

Portland Seed Co.'s Pine Hive.

This hive is similar to the Root Dovetailed Hive, except that it is made from a little different kind of Eastern Pine, but is first-class.

Numbers and Descriptions.

No. 1 Dovetailed Hive (complete with 1 super) consists of one bottom board, 1 body, 1 super, 1 cover, 8 Hoffman brood frames, 1 division board, (2 tightening springs) for super, 6 section holders, 6 slotted separators, 24 sections and foundation starters for frames and sections, and nails.

No. 2 Dovetailed Hive is the same as No. 1, less sections and foundation starters.

No. 3 Dovetailed Hive is the same as No. 1, except that it has two supers instead of one.

No. 4 Dovetailed Hive is the same as No. 3, less sections and foundation starters.

No. 10 Dovetailed Hive (complete two-story for extracting), consists of one bottom board, 2 bodies, 1 cover, 16 Hoffman brood frames, 2 division boards and nails.

Prices Portland Seed Co.'s Pine Hive.

No.	Nailed or K. D.	Packed in Flat	Weight
1. Complete	1	10	of 10
1-B. Complete	\$1.90	\$16.50	280
2. Empty	1.90	16.50	280
2-B. Empty	1.70	14.50	260
3. Complete	1.70	14.50	260
3-B. Complete	2.50	21.00	350
4. Empty	2.50	21.00	350
4-B. Empty	2.00	18.00	320
10. Empty	2.00	18.00	320
"B" designates supers with Fence Separators and			
4 1/4 x 4 1/4 x 1 1/2 in sections.			
Five hives at same rate as ten.			

Portland Seed Co.'s Cedar Hives.

We also offer this year a cedar hive made up of a superior quality of cedar instead of pine. This is a hive that will last for years. It is neatly made, and, for a low-priced article, is first-class.

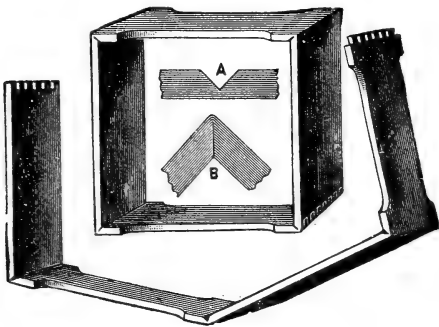
No.	1	5	10	Weight
1	\$1.85	\$8.00	\$16.00	of 10
2	1.55	6.50	13.00	275
10	2.00	8.50	17.00	300

Section Holders.

1 7/8 x 1 7/8 inches, slotted, per 100	\$2.00
1 1/2 x 1 7/8 inches, plain, per 100	1.75
Bottoms only. 1 1/8 inches wide, slotted, per 100	1.00

Section Honey Boxes.

Our No. 1 sections are made of the choicest white basswood lumber, and are all perfect in finish and free from defects. They are not all snow white, but vary from that to a light cream color. Choice honey shows off to best advantage in a section not too white, as it is the honey rather than the wood that the customer looks at.



SECTION BOXES.

PRICE OF NO. 1 WHITE SECTIONS.

65c. per 100; \$2.75 per 500; \$5.25 per 1000.

NO. 2 CREAM SECTIONS.

55c. per 100; \$2.25 per 500; \$4.25 per 1000.

Order size wanted. We have:—

4 1/4 x 4 1/4 x 1 7/8. 4 1/4 x 4 1/4 x 1 15-16.

4 1/4 x 4 1/4 x 1 3/4. 4 1/4 x 4 1/4 x 7 to the foot.

4 1/4 x 4 1/4 x 1 1/2. No bee way. 25c M. less.

3 5/8 x 5 x 1 1/2. No bee way. 25c M. less.

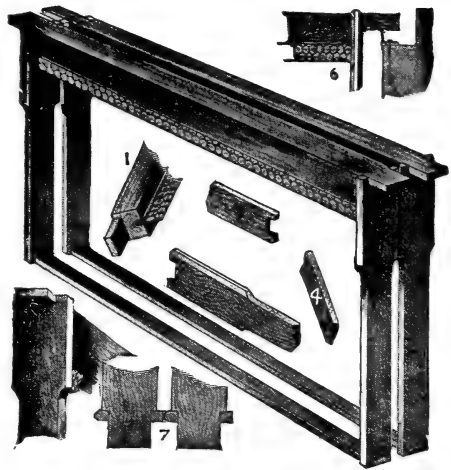
For Danz. hives, 25c extra per 1000.

For large quantities, other sizes, etc., write for special prices. If ordered by mail, allow 1c each for postage. Sample section by mail, free.

SEPARATORS.

	Per 100
Slotted wood separators, 4 1/4 x 18	\$1.00
Slotted wood sliced separators	.75
Plain separators	.65
Fence Separators, P or I	2.00

Brood Frames.

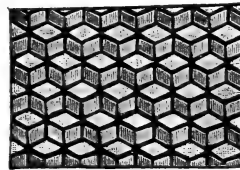


HOFFMAN FRAMES.

Hoffman Frames, I. F. F.	10, 30c.; 100, \$2.50
Half Hoffman Frames	10, 25c.; 100, \$2.00

DIVISION BOARDS, K. D., each, 10c.; 10 for 80c.

Comb Foundation.



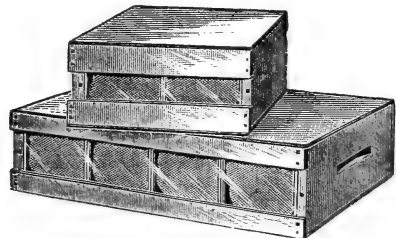
OUR "WEED PROCESS" FOUNDATION.

Is made by the A. I. Root Co., and is a very superior article. Packed in 1, 2, 3 and 5-lb. paper boxes, or 25 lbs. in a case. Samples mailed free on application.

—Grade—	Square ft. per lb.	lb.	10 lbs.
Light Standard Brood	6 to 7	.55	.53
Ex. Light Standard Brood	8 to 9	.60	.58
Light Section	11 to 12	.65	.63
Extra Light Section	12 to 13	.70	.68

If foundation is wanted by mail, add 25c per lb. up to 2 lbs.; and 20c per lb. over 2 lbs.

Honey Shipping Cases.

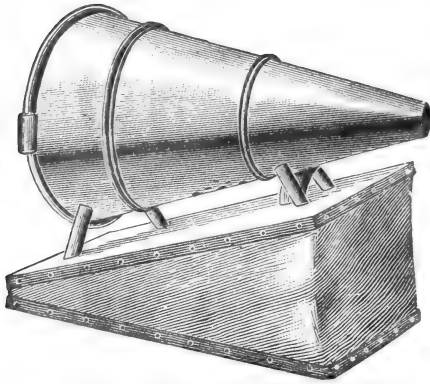


These have a glass front and are designed for marketing honey in.

PRICE LIST OF SHIPPING CASES.

	Nailed Each	Flat 10
24-lb. Non Drip Shipping Cases	\$0.30	\$2.25
12-lb. Shipping Cases	.15	1.10
24-lb. for 3 3/4 x 5 Sections	.30	2.25

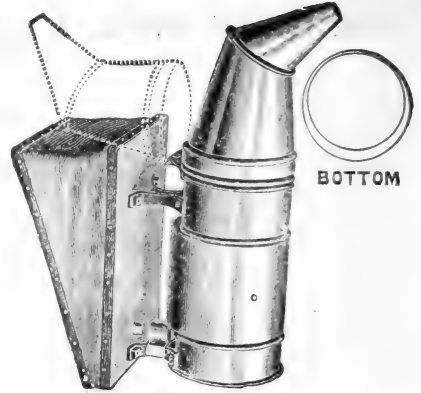
Prices include nails, glass, etc.



CLARK'S COLD BLAST SMOKER.

A \$1.00 Bee Paper FREE!

We will give to every customer who buys \$15.00 worth of bee supplies at catalogue prices a year's subscription to the finest bee paper in the U. S.—"Gleanings in Bee Culture"—published semi-monthly. \$1.00 per year. Every copy is worth a dollar, but you get it absolutely free with a \$15 order. No other premiums allowed where this is taken.



CORNEIL.

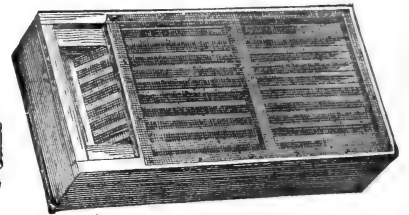
Smokers.

	Each	By mail
Clark's Cold Blast.....	\$0.60	\$0.75
Bingham, Conqueror	1.00	1.25
Bingham, Little Wonder.....	.60	.75
Bingham, Doctor	1.25	1.55
Bingham, Large .....	.90	1.10
Bingham, Engine	1.60	1.85
Cornell	1.00	1.20
Crane	1.50	1.70

Feeders.



BOARDMAN.



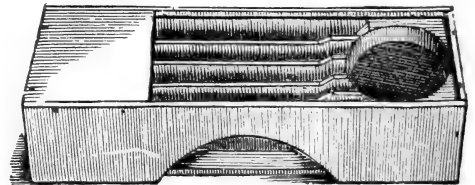
PAGE.

PAGE FEEDER.

Each, complete, 30c.; in lots of 10, each, 25c.; by mail, 25c. extra.

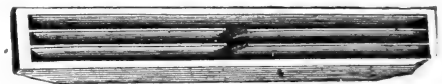
Miller's Feeder. Each, nailed up, complete, 35c.; in flat, 30c.

Boardman's Feeder. Without jar, 20c.



GRAY'S COVERED SIMPLICITY FEEDER.

Price, 20c.; by mail, 15c. extra.



SIMPLICITY FEEDER.

Price, 10c.; by mail, 15c.; 10 feeders, 65c.

Bee Veils.



FIVE BAR BEE VEIL.

No trouble to put on or take off. It protects against mosquitos, flies, bees, gnats, etc. The veil weighs only five ounces. Price, \$1.10.

These veils have a rubber band around the top, so as to fit the hat snugly; the lower edge is bound, to prevent fraying. The kinds of material are given below.

PRICE LIST OF VEILS.

No. 1	Veil, made entirely of silk tulle, 80c.
No. 2	Veil, cotton tulle with silk tulle-face, 50c.
No. 3	Veil, cotton tulle throughout, 40c.
No. 3½	Veil, mosquito bar, silk tulle face, 40c.

Gloves, Rubber.

Ladies' sizes, 7, 8 and 9. Price, \$1.15; postage, 5c.
Gents' sizes, 10, 11 and 12. Price, \$1.25; postage, 5c.

Men's half long, Nos. 13, 14 and 15. Price, \$1.50; postage, 10c.

Men's half long, Heavy, Nos. 13, 14 and 15. Price, \$1.75; postage, 10c.

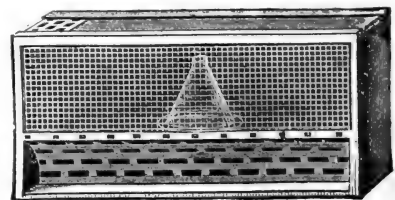
To insure getting proper size, mark outline of hand on sheet of paper. If you order by number, order two sizes larger than you require in kid.

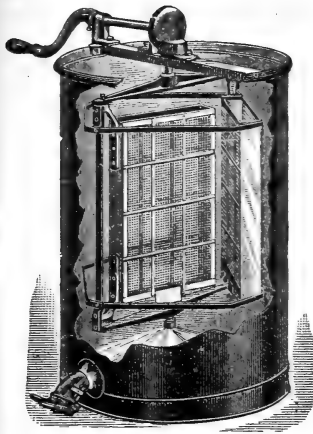
Swarm Catchers.

MANUM'S, with pole, \$1.50; without, \$1.10. by mail, each, 15c. extra.

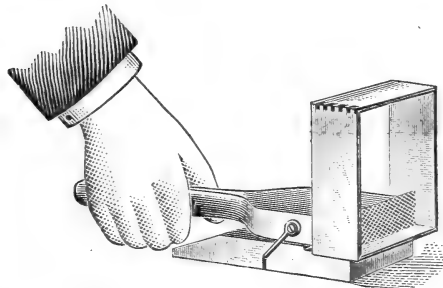
ALLEY'S COMBINED DRONE AND QUEEN TRAP.

A perfect non-swarmling arrangement. Each, 50c.; by mail, each, 15c. extra.





COWAN'S EXTRACTOR.

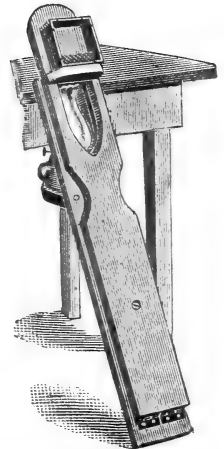


PARKER'S FOUNDATION FASTENER.

We are always in the market for Beeswax and pay the highest prices.

FOUNDATION FASTENERS.

Daisy. Without lamp, \$1.00.
Parker's, 30c.; by mail, 45c.
Hubbard Section Press, \$2.75.

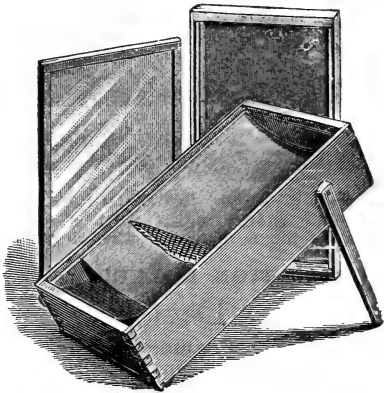


DAISY.

Honey Extractors.

Cowan. No. 15, two frames.....\$13.50
Novice. No. 5..... 10.00

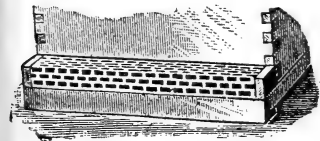
Wax Extractors.



DOOLITTLE SOLAR.

Doolittle Solar. Weight 30 lbs.....\$4.50
Swiss. \$3.00; with steam generator, \$4.00.

Entrance Guards.



ROOT'S

—or—

TINKER'S

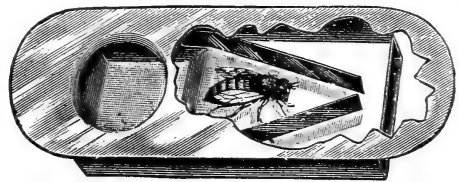
Price. 10c.; by mail, 15c.; 10 for 90c.

Book on Bees.

A B C of Bee Culture.

This is a regular encyclopedia on bees. The latest revised editions are almost worth their weight in gold to those who handle bees. Price, \$1.25 postpaid.

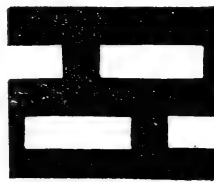
FOR OTHER GOOD BOOKS ON BEES, SEE PAGE 97.



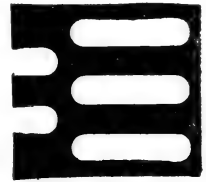
PORTER BEE ESCAPE.

Porter Bee Escape.....postpaid. 20c.
Mounted. Express. each40c
Porter Honey-House Escape, each, postpaid. 35c.

Perforated Zinc.



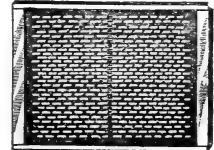
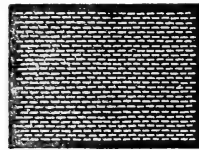
ROOT'S.



TINKER'S.

Perforations 17-100 wide.

This is used between the upper and lower stories, to prevent the queen going up above. It is also used in entrance guards, for queen and drone traps, etc. Zinc strips, 1 row holes, $\frac{3}{4}$ x 18 to 19 $\frac{1}{2}$ inch. Each 2c.; per 100, \$1.25.
Zinc sheets, Root's perforated solid, 28x96. Each \$2.00; 36x96, \$2.50.
Zinc sheets, Tinker's 28x96, each, \$2.40.
Less than a sheet, Zinc, per square foot, 10c.; by mail, 10c. per foot extra. Zinc strips may be sent by mail for 1c. each for postage.



HONEY BOARDS—ROOT ZINC.

No	Name and description	Size inches	Prices—
			1 10
11,	8-frame, unbound.....	12x19 $\frac{1}{4}$	.25 \$2.00
1,	10-frame, unbound.....	14x19 $\frac{1}{4}$	.25 2.10
13,	8-frame, wood bound.....	13 $\frac{3}{8}$ x 20	.30 2.50
12,	10-frame, wood bound.....	16x20	.30 2.60



Pure Blooded Italian Queen Bees.

Untested queen, April, \$1.75; May, \$1.50; June, \$1.25; July, -August-September, \$1.00.
Tested queen, April, \$2.50; May, \$2.00; June, \$2.00; July-August-September, \$1.50.
Select tested queen, April, \$3.50; May, \$3.00; June, \$3.00; July, \$2.50; August-September, \$3.00.
Full colony of bees, April, \$8.00; May, \$7.00; June, \$7.00; July, \$6.00; August-September, \$6.00.
Queens by mail are prepaid.
Benton Queen Cages, no candy, each, 5c.; 10, 40c.; post-paid, 6c.; 10, 45c.

QUEEN CELL PROTECTOR. (Spiral Cage.)

Each 10
West's Queen Cell Protectors.....10c...50c.
West's Spiral Cages, postpaid.....10c...80c.

Honey Knives.



"Novice" Honey Knife.
Price, 85c.; by mail, 90c.



Quimby Knife.
Price, \$1.00; by mail, \$1.05.



Abbott Honey Knife.
Price, 80c.; by mail, 90c.

15-cent honey knife, by mail.....20c.

BEESWAX.

If you have beeswax to sell, send it to us.
We will take it in trade, or pay you cash.

HONEY.

We are very successful in selling good honey.
If you want us to sell yours, send it to us on consignment.

YOUR ORDERS.

We are always glad to quote special prices
on large orders. When ready to buy send us
your list of goods wanted.

Bee Brushes.

DAVIS BRUSH.

We much prefer the Cogshall brush, but we can
furnish the Davis, either bent or straight handle.
Price, each, 20c.; postpaid, 23c.



COGSHALL'S BEE BRUSH.

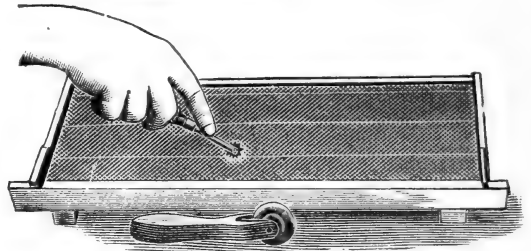
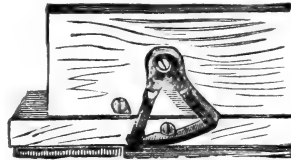
This is a sort of whiskbroom, especially adapted
and made for brushing bees.
Each, 20c.; postpaid, 26c.

HIVE CLAMPS.

VAN DUSEN'S

Per set, including
two screws, 5c.; 10
pairs, 40c.

No screws, 10 prs..
35c.; by mail, 3c. per
pair extra.



SPUR WIRE IMBEDDER.

This is like a tracing wheel, with the teeth set
so as to straddle the wire while imbedding it.

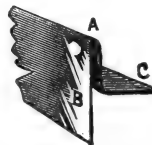
Postpaid, 20c

DAISY FOUNDATION ROLLER, postpaid, 20c

Hill's Devices.

For Covering Frames in Winter.

Price, 60c. for 10; by mail, 5c. each extra.



TIN RABBETS FOR HIVES.

These are of folded tin,
and are used for frame to
rest on. The price is as
follows: Rabbits for Dov.
hive, 12 to 14 inch, \$1.25 per
100.

Rabbits of other lengths will be 1/4c. per foot.
Rabbits are included with all our hives.

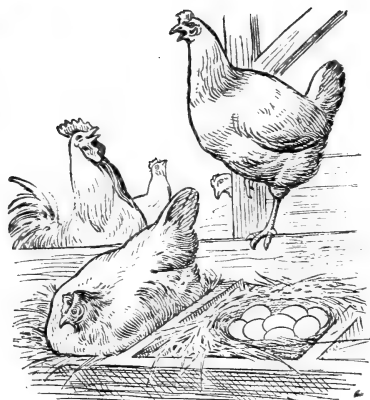
T-TINS—14 inches and under.....100
.....\$1.25
T-TINS—Over 14 inches and up to 16 inches.... 1.40
FLAT TINS—14 inches and under.....0.50
FLAT TINS—Over 14 inches and up to 20 inches.
.....0.75



NO. 30 TINNED WIRE.

	Doz.	Each	Express
3/4 oz. spools.....	8c.		\$0.55
1/4 lb. spools.....	15c.		1.05
1/2 lb. spools.....	25c.		2.40
1 lb. spools.....	40c.		3.50
5 lb. coils.....	1.25		....

For a more complete and descriptive list of
hives and supplies, write for Bee Supply Cata-
logue. Mailed free. Should be in the hands of
every bee-keeper.



COPYRIGHT

Poultry Supplies.

The raising of poultry is a paying business, and a few dollars carefully invested in it will bring many in return. We have an ideal country for the chicken business. Our climate is mild, food is cheap and plentiful, and our markets are good. We trust the time will soon come when poultry and eggs will not have to be shipped into our state by the carload, as they are now, to supply the demand.

On this and the following pages you will find descriptions and prices of what we believe to be the best and most complete line of poultry supplies ever offered to poultry raisers. Our trade in this line has increased very rapidly during the past few years, as we keep up with the times. As soon as we find an article of merit and value we add it to our stock, and discard stock that is not "up-to-date" or satisfactory.

The goods we are offering in this catalog are for those who want to make a success of poultry. They are the ones to whom we look for permanent trade, and it certainly would not pay us to sell goods that we

cannot guarantee to be as represented. Therefore, if you want to buy reliable, practical and up-to-date poultry supplies, the cream of all stocks offered, select from the following list.

Please remember that this department is in charge of expert poultry men (not boys) who have had experience and fully understand the poultry business. We take an interest in our customers and are always glad to render them such assistance and help as our experience will permit.

Will you be one of our customers?

St. Helens Incubators.

For the past season or two we have been looking for a really first-class incubator; one perfect in every detail, sure in results, easy to operate, fire-proof and one fully guaranteed to purchasers. Have we found it? Yes. And it is the "St. Helens," invented and manufactured by the St. Helens Incubator Co., Toledo, Wash. The manufacturers have been making these incubators for the past seven years. We have watched their progress all along, and now can, with others who are working for the upbuilding of the poultry industry in this big western country, congratulate them upon their great success.

We are proud to say that this western company are making incubators and brooders that are surpassed by none, East or West. They are not toys; they are not experiments; but they are machines that will hatch and raise poultry successfully. We do not ask you to take our word alone, but we can refer you to hundreds of people, perhaps some of your own town folks, who have proven our statements by their own experience.

In the St. Helens incubator is combined all the good qualities to be found in both Hot Air and Hot Water incubators, and the objections and disadvantages of neither.

In the 1903 model incubator, we offer a hatching machine that is mechanically perfect, with superior finish, the simplest and most economical, and without an equal as a hatcher. (Read the guarantee on next page.)

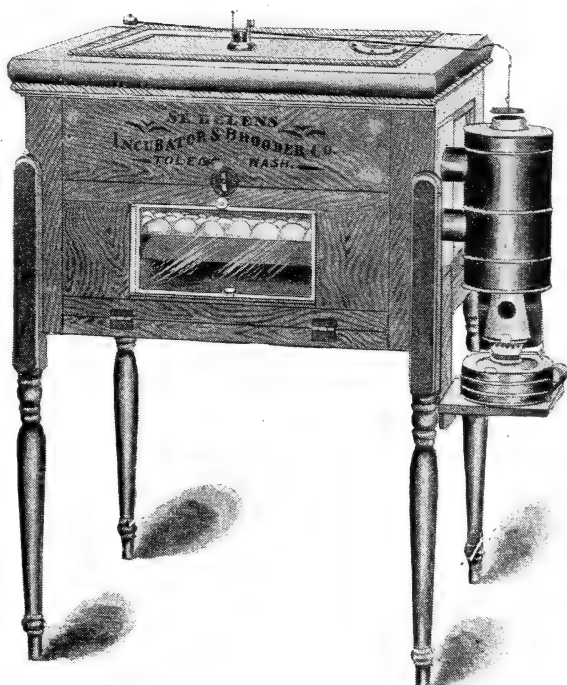
In offering to the public this machine, which is fitted with copper tank, red cedar and white fir case, wafer regulator, safety lamp, etc., we are confident that it is the best all-round incubator ever made.

They are fully guaranteed and will out-hatch any other make. This is part of our guarantee, and it means something.

The best incubator is the one that hatches the best. The St. Helens will stand the test.

Poultry Supplies at cost, on page 98.

Poultry Books on page 97. You can get them free. See inside front cover.



(120 Egg) ST. HELENS INCUBATOR.

PRICE LIST OF THE ST. HELENS INCUBATOR.

ONLY ONE STYLE—THE BEST.

75 Egg Capacity Incubator.....	\$16.00
100 (120) Egg Capacity Incubator	20.00
200 (230) Egg Capacity Incubator	30.00
Weight, crated, 75 Egg Capacity, about 90 lbs.;	
120 Egg Capacity, about 120 lbs.; 230 Egg Capacity, about 175 lbs.	

NOTE.—At the above prices machines are furnished complete, ready for immediate use, including Lamp, Burner, Wick, Thermometer, etc.

A Complete Catalogue.

For a fully detailed description of the St. Helens Incubators and Brooders, send to us for the St. Helens complete 74-page catalogue, which is fully illustrated. Sent free on request.

"Good as Gold"

***** OUR GUARANTEE: *****

THE ST. HELENS INCUBATOR.

Guaranteed to produce a strong, healthy chick from every hatchable egg, to be self-ventilating, to be self-regulating, to operate without supplied moisture wherever and whenever it is not needed in the natural method, to be absolutely fireproof and fitted with a safety lamp, and to be simple and easy to operate successfully.

We guarantee workmanship, material and finish to be of the best, and we further guarantee the St. Helens Incubator to out-hatch and out-last any other make of incubator on the market. Your money returned if they are found to be other than represented by us, or will no do the work claimed for them.

ST. HELENS INCUBATOR CO.

We, as coast agents for this company, stand back of this guarantee, and you are protected. Now don't be so foolish as to send away back East for a machine until you have tried the St. Helens.

St. Helens Superior Brooders.

A Word of Praise.

St. Helens Incubator Co.:

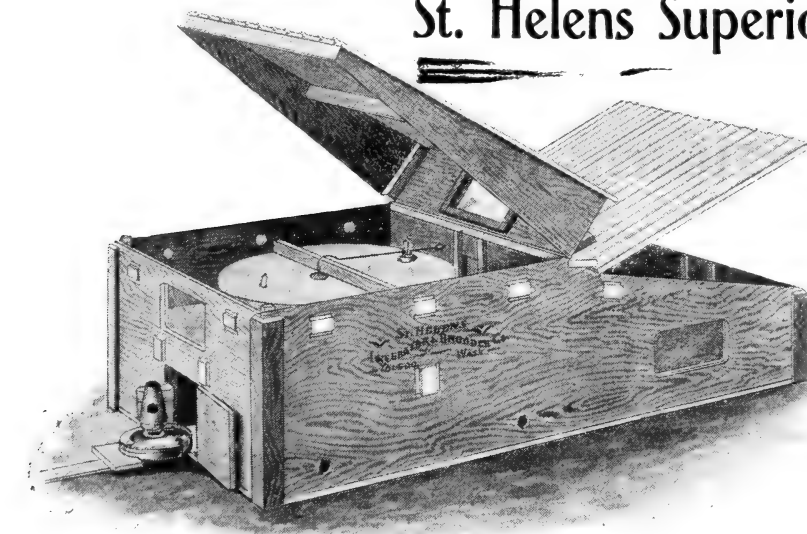
GENTLEMEN. — The St. Helens outdoor brooder I purchased of Portland agent, has given perfect satisfaction.

I put 103 chicks in it and raised 98 per cent., that today are as healthy and active as any chicks I ever saw.

It is a practical chicken raiser—a brooder I can honestly recommend to anyone looking for the best brooder.

Yours truly,
W. H. HETZER,
Vancouver, Wash.

A good Brooder is as necessary as a good Incubator.



St. Helens Outdoor Brooder, Open Showing Hover Arrangement and Regulator Attached.

In the St. Helens Brooders we offer our customers one of the finest constructed and most successful Brooders on the market—machines that are especially adapted to raising chickens in this climate—containing double floor space and superior in other particulars, and we believe there are no better Brooders made at any price.

Both indoor and outdoor Brooders are the same in the matter of heating; forced ventilation and the circular-hover system.

The lamp, which is one of the famous Hydro-Safety Lamps, is conveyed into position directly under the circular, cone-shaped Heater by means of a slide, which is reached through the door at the front of the Brooder.

One of the many superior features of these machines is to be found in the circular, hot water Heater, Hover and forced ventilation system.

The Heater is constructed in such a way, and with double domes—one over the other—that the space between forms a water tank; and in connection with and around the double domes is a hot air chamber for warming and forcing the pure ventilating air under the Hover.

Heavy, double Hover cloths are tacked to the edge of the circle, thus forming a complete and comfortable mother for the chicks.

As soon as the Heater is warmed by the Lamp, a circulation of air begins. Pure air that is free from all gas is drawn from the exterior, heated to the proper degree, and forced to the top and outer edges of the Hover and evenly over the backs of the chicks, being slightly moistened as it passes around and over the outer dome of the Heater.

The success of a Brooder depends largely on the ventilation and system of applying heat, and we claim that our Heaters, with their double-action ventilation system, change the air more times during a given period than any other Brooder Heater on the market.

The circular-hover system and method of applying heat prevent the chicks from crowding or over heating, as all parts of the Heater are circular, and, if the temperature under the Hover becomes warmer than they like, the chicks can move into the Brood Chamber proper, where the temperature is several degrees cooler.

PRICE.—Outdoor brooders, all complete, \$14.00. Capacity, 100 to 150 chicks.

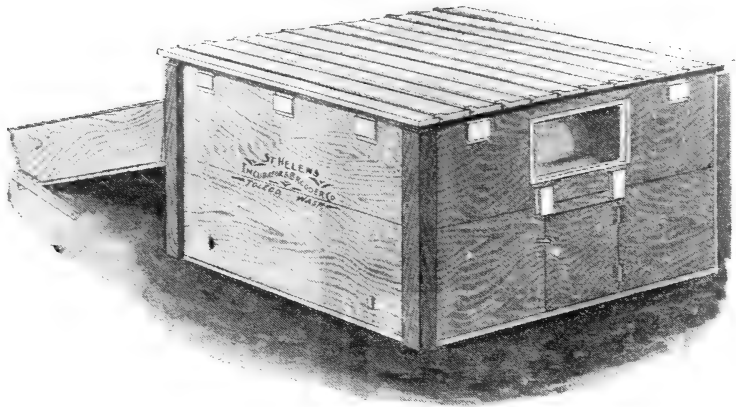
Hover fitted with a first-class heat regulator that will maintain the heat at any degree desired, \$1.50 extra.

St. Helens Indoor Brooder

The indoor Brooder is constructed with the same heating and ventilating system as the outdoor Brooder, and is designed for inside use, as in a Brooder house, in a room, or under a shed or shelter of some kind. A board runway, same as given in the cut, can be hinged to the Brooder for feeding and watering the chicks while young, and to serve as an incline to walk up and down on when let down.

Price, all complete, \$9.50.
Capacity, 100 to 150 chicks.

If runway is wanted, like shown in cut, add 75c extra.



St. Helens Superior Indoor Brooder.

Remember!

A request on a postal card will bring you our illustrated and descriptive catalogue of these brooders.

St. Helens Superior Double Brooder

This Brooder has many advantages over the old-style, pipe-system, sectional Brooders, as each section is heated with a separate Heater and Lamp, and one section can be operated independent of the other.

Price, all complete, \$18.00. Capacity, 200 to 300 chicks.

The Humphrey Green Bone and Vegetable Cutter

THE OPEN HOPPER TYPE.

The Humphrey was the first bone cutter to be called the open hopper type. It is still the only bone cutter which really has an open hopper, that is always open, whether filled or empty, free from obstructions, and partitions. It is the only machine which is ready when you are ready—drop in a bone and start cutting without the adjusting of the complicated mechanism and delicate springs and "fixings" used on other machines. The Humphrey is the simplest, the quickest, the best. If you don't think so after trying it, don't keep the machine. That's what our guarantee means.

It runs so easily, works so rapidly, makes food of such fine quality, that it easily ranks first of all bone cutters.

ITS CONSTRUCTION.

In construction the Humphrey is unlike any other bone cutter made. It consists of practically three parts; a hopper which holds the bone to be cut; a cutting head or knife with attachments for turning, and a wing working on a pivot to hold the bone in

position for cutting. That is all there is to the working parts of the machine. It is simplicity itself.

EASE OF CLEANING.

There is no bone cutter made which is so easily kept clean as the Humphrey. The open hopper and the exposed cutter head afford easy access for cleaning, and with the Humphrey it is very easy to avoid that disagreeable slaughter house odor which enables you to locate so many bone cutters before you come in sight of them.

WILL IT PAY?

It really will cost you nothing to put a Humphrey bone cutter in your poultry yard. It pays for itself many times over. There is no flock so small that a bone cutter used in preparing its food will not pay and pay well; there is no flock so large that the Humphrey will not care for its wants easier, better and with less waste of time and power than any other machine.

Write to us on any points which are not perfectly clear and plain. It's a pleasure to us to write to poultry raisers.

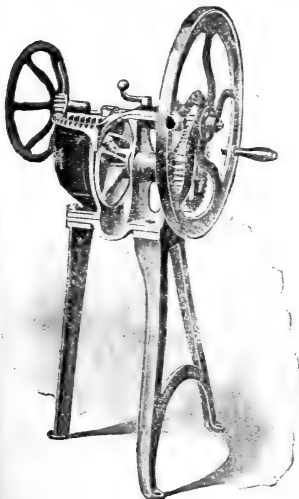
POULTRYMAN.

This is the only bone cutter
your wife can run. Be wise now.

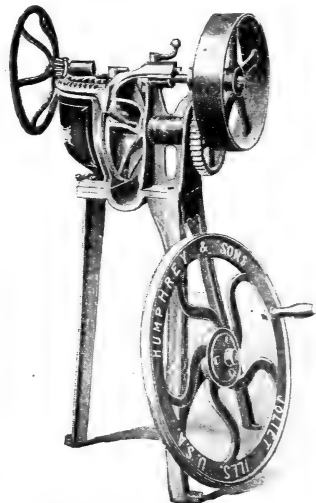
PRICE LIST.

No. 1, hand power	\$14.00
No. 2, semi-power	17.50
No. 2 1-2, hand or power	20.00
No. 3, direct power	40.00
No. 4, geared power	50.00

If you are interested in this cutter and want a fully illustrated and descriptive catalogue, write us and we will send one of Humphrey's Complete Catalogues free of charge. This catalogue also contains an egg record and expense account for a year. It's yours for the asking.



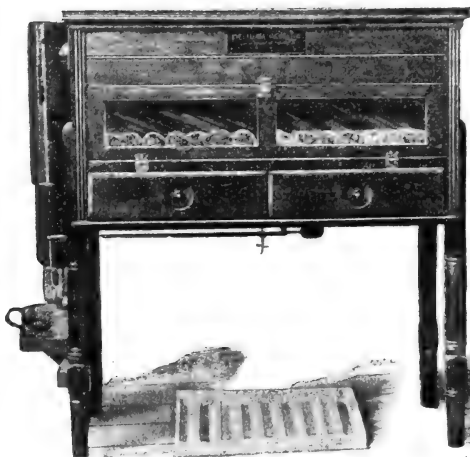
NO. 1 HUMPHREY.



NO 2½, HAND OR POWER.

Bargains in Poultry Supplies, page 98.

Petaluma Incubators and Brooders.



Model 60. Capacity, 126 Eggs.

PRICE LIST PETALUMA INCUBATORS.

Model 59 or 59½; capacity, 54 eggs.....	\$10.00
Model 60 or 60½; capacity, 126 eggs.....	20.00
Model 61 or 61½; capacity, 216 eggs.....	27.00
Model 62 or 62½; capacity, 324 eggs.....	35.00

We pay the freight.

PETALUMA BROODERS.

Petaluma Brooders, like the Incubators, are the product of long years of experience and are an indisputable success. They are well built of redwood and galvanized iron sheeting; can be separated and cleaned instantly. Have no cracks or unclean corners to breed vermin and disease germs, and the cost is exceedingly low.

PRICE LIST PETALUMA BROODERS.

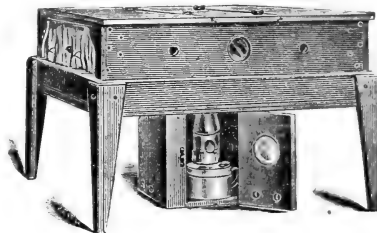
ALL COMPLETE, READY FOR USE.

Indoor—Model 15; capacity, 100 chicks....	\$ 5.00
Indoor—Model 18; capacity, 200 chicks....	10.00
Outdoor—Model 16; capacity, 100 chicks....	12.00
Hot Water—Model 17; capacity, 200 chicks..	15.00

WE PAY THE FREIGHT.

Petaluma Incubators have been producing big hatches among us for upward of twenty years. No others have so enviable a record. Among their many excellent points we would have you note these few: Their walls and casings are Redwood throughout, which is universally acknowledged to be the best for this purpose. The flues are made of 12-oz. cold rolled copper. Infinitely superior to galvanized iron or tin. The regulator is indestructible and absolutely reliable under all atmospheric conditions; its connection with the lamp burner minimizes oil consumption by using only such heat or oil as is necessary to maintain 103 degrees of heat in egg chamber. It has a nursery below the hatching chamber. The ventilation system is good, so are the corrugated metal wire egg trays with their turning system. Buy one. Don't experiment with uncertainties.

We give our patrons choice of two plans. Models 59, 60, 61 and 62, having the regulator to act on the flame to raise and lower it, which is well known to be the most economical in consumption of oil. Models 59½, 60½, 61½ and 62½ have our famous Petaluma regulator attached to a valve by which the excess of heat is allowed to escape without passing through the pipes or tank in the egg chamber.



Petaluma Indoor Brooder. Model 15

Space will not allow us to give full descriptions of these machines, so kindly send for the Petaluma illustrated and descriptive catalogue. Sent free on request.

THE DANDY GREEN BONE CUTTERS.

The "Dandy" Green Bone Cutter is a strictly first-class machine. It is easy to fill, has a large capacity, is self-feeding, easy to operate and has many good features not found in other makes. They are fully guaranteed.

THE NO. 1 DANDY is a first-class cutter for the price, self-feeding. Inside dimensions of bone box 4x3x13 inches.

NO. 2. Same as No. 1, except that it has the latest improved Split Feed Nut.

NO. 3. Hand or power. Dimensions of bone box 4x3x20 inches.

NO. 9. Geared cutter. Has given the very best of satisfaction. About the same size as No. 1.

NO. 10. Same as No. 9, except that it has the latest improved Split Feed Nut.

NO. 11. Same as No. 9, except that it is much larger. Inside dimensions of bone box 4x3x13 inches.

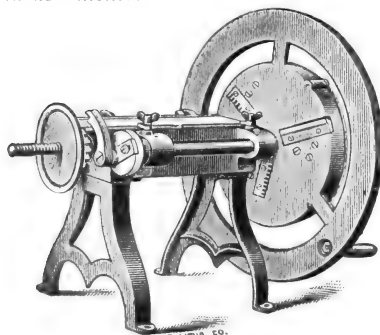
NO. 12. Same as No. 11, except that it has the improved Split Feed Nut.

PRICE LIST DANDY CUTTERS.

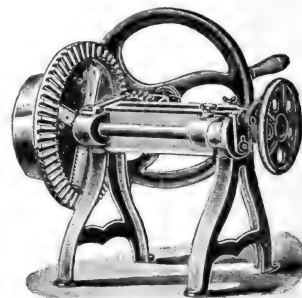
Prices cut from \$1.00 to \$3.00 each.

No. 1. (with balance wheel)....	\$12.00
No. 2. (with balance wheel)....	14.00
No. 3. (with balance wheel)....	20.00
No. 9. (with bal. wheel geared)....	13.00
No. 10. (with bal. wheel geared)....	15.00
No. 11. (with bal. wheel geared)....	16.00
No. 12. (with bal. wheel geared)....	18.00

For more complete description of the Dandy write for the Dandy catalogue. We will gladly mail it free.



No. 1 Dandy.



No. 9 Dandy Geared.

FOR BARGAINS IN POULTRY SUPPLIES, SEE PAGE 98.

Mann's Green Bone Cutters.

If you want an old reliable machine—one that has established a reputation in the yards of practical poultrymen—buy a Mann's.

If you want a new machine—one that has every late improvement, one that is really "ahead of the times"—buy a Mann's. It does the work with the greatest ease. It makes every hen a paying hen. Try it and see.

The Mann's is the only machine which has a self-governing feed, which produces a uniform pressure against the knife, whether the bone be hard or soft. You set the machine to suit your strength, and it never requires more power than you set it for.

The Mann's cuts any bone and all adhering meat or gristle, and never clogs or stalls.

The Mann's is, in short, an ideal bone cutter. We believe that it is a better machine, all points considered, than that produced by any other manufacturer.

Try it for yourself, and if you are not satisfied you can have your money back. Could you ask more?

New No. 5.

Has four knives, large cylinder, and has the latest patent automatic governing spring feed, which makes it one of the best low priced bone cutters ever offered. Can furnish with crank, balance wheel, or mounted on iron stand.

New No. 7.

The New No. 7 is mounted on strong iron stand, and has patent automatic governing spring feed. Large open-hinged cylinder, giving instant access to all working parts, has 6 knives, gear guard anti-clog device, heavy balance wheel and other improvements.

New No. 7½.

Adapted to run either by hand or by power, without any change.

The particular advantage of the 7½ is, that while it is a complete power machine, it can be operated by hand just as easily as the No. 7. Thus, it is always ready for use. It is recommended even if you have no power at present, for should you get power in the near future, you need be at no further expense. There is a large class that need a power bone cutter, who cannot really afford to pay the price of the No. 11 or 12. The No. 7½ will appeal directly to this class. It has all the improvements. It meets a long-felt want.

BROKEN PARTS.

Nos. 5, 7, 9 and 4 are guaranteed for one year.

If any part breaks while in actual use it will be furnished free, except transportation.

New No. 9.

No. 9. The description of No. 7 will apply to the New No. 9. The difference consists of larger cylinder, greater holding capacity, different design and larger table.

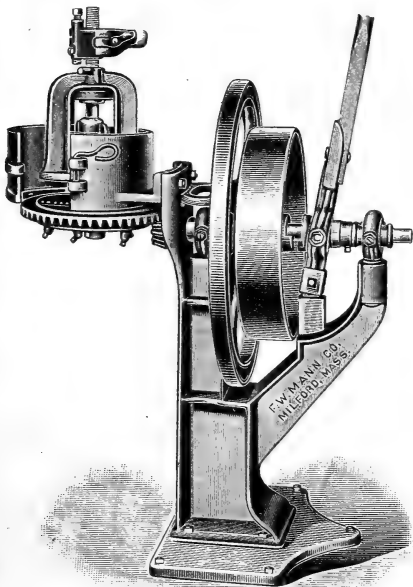
This machine can be altered into the No. 11, by adding the power parts, making a combination machine for both hand and power.

New No. 12.

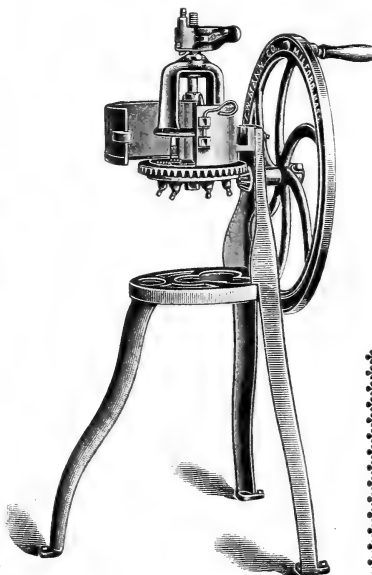
New No. 12. Power Machine. Intended for market men, or anyone who has power and large quantities of bone to cut. New design throughout. Weight 260 pounds.

Price List of Mann Bone Cutters.

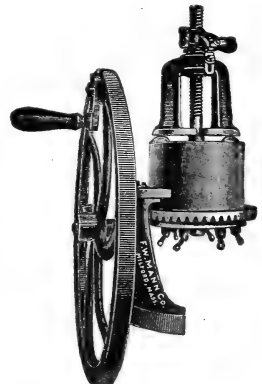
New Styles.	Price.	Weight.
No. 5 C (with crank handle).....	\$ 7.75	30
No. 5 B (with balance wheel).....	10.00	55
No. 5 B M (B. W. and iron stand)....	13.00	80
No. 7 (B. W. and iron stand).....	14.50	107
No. 7½ (hand or power).....	19.50	150
No. 9 (B. W. and iron stand).....	21.00	163
No. 11 (power machine).....	30.00	215
No. 12 (power machine).....	34.00	260
No. 4 B (with balance wheel).....	12.00	75
No. 4 B M (B. W. and iron stand)....	14.00	110



Mann's New Power No. 12.



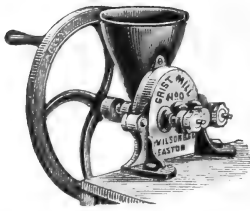
Mann's New No. 7.



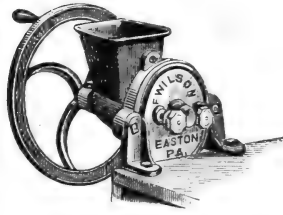
Mann's New No. 5 B.

MANN'S HANDSOME CATALOGUE

Tells all about the different style cutters and contains much valuable information. Free on request.



Wilson Feed Mill No. 0.



Wilson Feed Mill No. 1.

The Wilson Dry Bone Mill.

No 1 is a practical mill, grinding all kinds of shell, crockery, grit, burnt or dry bone, feed, etc. Instantly adjusted to grind coarse or fine. Weight 33 pounds. Diameter of hand-wheel, 20 inches. Price, \$5.50.

No. O. Wilson's.

Is a family grist mill in itself, especially made for grinding graham, flour or corn meal, for table use. It can also be adjusted for cracking grain if desired. Weight, 30 pounds. Price, \$5.50.

Reliable Egg Carrier.

Each and every one of our egg carriers is nicely painted and is equipped with the very best fillers. Holds 12 dozen. Price, 75c. each.

Automatic Feed Box.

Made of heavy galvanized iron. Soon pays for itself in preventing waste of feed. Just the article for keeping grit, shells and charcoal before the fowls at all times. Price, 75c. each.

Feed or Water Cups.

Every shipping or exhibition coop should be fitted with one or two of these cups. Price, 15c. each.

Roost Hangers.

The latest, best and cheapest ever offered. Poultrymen should not be without them. Will keep the birds free from vermin. Price, 10c.; \$1.00 per dozen.

Mann's Clover Cutter.

It is not a toy or rattle-trap. Made entirely of iron and steel, cannot warp or shrink. It cuts any kind of hay or clover, either dry or green, and more rapidly than any other made. Each revolution of the balance wheel produces twelve cuts, which is four times as fast as the ordinary clover cutter.

Do not buy a clover cutter until you have seen the Mann's. Price, \$9.50. Mounted on iron stand, \$12.00.

Stearns Clover Cutter.

Quite small, but worth the price. \$3.00.

Mann's Cast Iron Mortar.

Designed expressly for breaking glass, crockery ware, oyster shells or other dry substances for poultry. Weight, 33 pounds; height, 12 inches, 9 inches square; pestle, 4 feet long. Price, \$3.50.

Mann's Swinging Feed Trays.

For water or for feed. Fowls cannot scratch dirt into it, or feed out of it, nor roost on it; yet will not tip over or spill the food out. Price, 18-in., \$1.00; 27-in., \$1.25; 36-in., \$1.50.

Canfield Egg Shipping Box.

This box can be packed, closed and addressed in less time than any similar device on the market.

This is by far the neatest package for shipping eggs. Its use shows that you are up-to-date and it makes a good impression on your customers. Your label on the box is always conspicuous, and will thus carry your advertisement wherever it goes.

PRICES.

No. B1. 15-egg size.....25c. each; per doz., \$2.40.
No. B2. 30-egg size.....35c. each; per doz., \$3.25
No. B3. 50-egg size.....50c. each

Nest Eggs.

MEDICATED EGGS.

Used as nest eggs, and also to keep the lice away.
Three for 25c., post-paid; dozen, 60c.; by mail, 90c.

CHINA NEST EGGS.

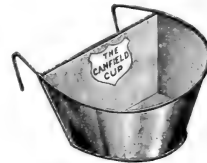
30c. dozen; by mail, 50c.



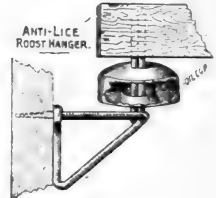
Egg Carrier.



Feed Box.



Coop Cups.



Roost Hangers.



Mann's Clover Cutter Mounted.



Egg Boxes.



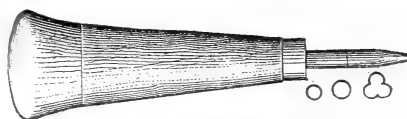
Mann's Feed Trays.



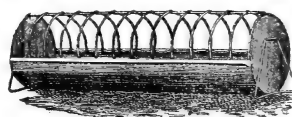
Egg Tester.



Reliable Poultry Punch.



Smith Awl Poultry Marker.



Feeding Trough.



Nest Baskets.



Eclipse.



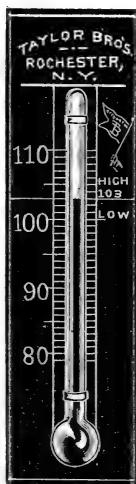
Climax.



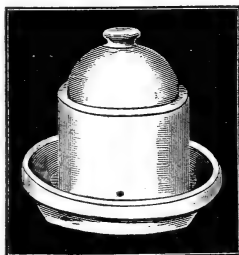
Maughlin's.



Smith's.



Thermometers.



Stone Fountains.



Reliable Fountains.

Egg Testers.

This improved tester will fit any No. 2 burner. Price 35c.
Leather Egg Tester. for sunlight, 50c.

The Smith Awl Poultry Marker.

Price, postpaid, 60c.

The Reliable Spring Lever Poultry Punch.

For marking the web between the toes. The very best. By mail, 35c.

Poultry Marker.

"Pilling's." This steel-spring punch, by mail, 25c.

Wire Covered Feeding Trough.

New and decidedly convenient, especially for young chicks. Price 35c., by mail 50c.

Wire Hen's Nest.

Strongly made. Very durable. Fasten to the wall with two heavy screws. No harbor for vermin. Price 25c.

Leg Bands for Poultry.

In ordering bands state what kind of birds you want them for.

Eclipse. Prices, 20c. per 12.; 35c. per 25; 60c. per 50; \$1.00 per 100.

Climax. Per doz., 25c.; per 25, 40c.; per 50, 75c.; per 100, \$1.25.

Copper. Per doz., 20c. postpaid; per 25, 40c.; per 50, 75c.; per 100, \$1.25.

Aluminum. Per doz., 25c. postpaid; per 25, 40c.; per 50, 75c.; per 100, \$1.25.

Maughlin's Sealed. You simply pass it around the bird's leg and by pressing the two ends together, lock it. Prices, by mail, postpaid, 12 for 25c.; 25 for 50c.; 60 for \$1.00; 100 for \$1.50.

Smith Sealed. Of Aluminum and so constructed that by simply crushing a soft rivet they are sealed on the bird's leg and must be destroyed to be removed. By mail postpaid, 10 for 25c.; 25 for 50c.; 60 for \$1.00; 100 for \$1.50.

Sealing Tools. For sealing the bands. Plain jaw, 50c.; lettered jaw, 75c.

Stoneware Drinking Fountains.

Keeps water cool. Price, ½-gallon, 25c.; 1 gallon, 40c. Sanitary drinking fountain in two pieces. Easy to keep clean. Price, ½-gallon, 35c.; gallon, 50c.

The Reliable Drinking Fountains.

Made of heavy galvanized iron. We claim that these are an improvement on all other styles of fountains now on the market. Price, ½-gallon, 50c.; gallon, 65c.

THERMOMETERS.

TESTED FOR INCUBATORS.

All Glass, for Petaluma, by mail.....\$1.00
Metal Back, for St. Helens.....1.00
Bevel Edged, Japanned.....75c.

FOR BROODERS.

St. Helens, Tested.....60c.
Tin Back, 7-in.....25c.
Cabinet, Wood back.....50c.

INSECT POWDER BLOWER.

For use in applying insect powder. By mail, 25c.

RELIABLE FOOD COOKER.

Capacity, 20 gallons. Price, \$8.00.

PILLING'S CAPONIZING TOOLS.

Complete outfit with instructions.\$2.50 postpaid

HYDRO SAFETY LAMP.

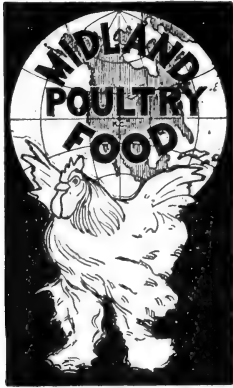
For brooder or small incubator.....\$1.10
For 230-egg incubator.....1.60

Wire Netting for Poultry Runs and Trellises, Etc.

No. 20 Wire, in Rolls 150 Feet Long in the Following Widths: . . . 12 in. 18 in. 24 in. 30 in. 36 in. 42 in. 48 in. 60 in. 72 in.

2-inch mesh.....	\$0.80	\$1.15	\$1.60	\$2.00	\$2.25	\$2.70	\$3.00	\$3.75	\$4.50
1½-inch mesh.....	1.10	1.55	2.15	2.75	3.30	3.85	4.25	5.50	6.30
1-inch mesh.....	2.00	2.80	3.60	4.50	5.65	6.30	7.20	8.65	10.50

Short lengths, 2-in. mesh, 1c. sq. ft.; 1½-in. mesh, 1½c. sq. ft.; 1-in. mesh, 2½c. sq. ft.
Prices subject to change without notice.



Midland Poultry Foods.

Scientifically Prepared and Properly Balanced Rations for Poultry.

Ten years ago Dr. Petros F. Nishkian, one of the best organic chemists in this country, who for thirteen years filled the position of analytical and organic chemist to the Armour Packing Company, began the study of this question with a determination to solve it. His duties were largely in the analysis of animal products and vegetable and grain foods, and their economic adaptation to specific uses.

After an exhaustive study and analysis of all the sources of supply and a physiological study of the fowl, accompanied by a practical application of various combinations of the different food constituents, he finally arrived at what has proven itself to be a **perfectly balanced ration**—a correct working basis—and an absolute nutritive ratio for each specific purpose.

Practical poultry men were called in to assist in carrying out the work, and theory and practice made to conform. The results of this labor are now before you in the specific food we offer.

The cost of feed and the value of the product or output is an important consideration. Economy in feeding is commendable and necessary, but economy does not lie in the direction of a cheap article. Any food that is not convertible into the product we desire is wasteful and extravagant at half the cost of an article that is so compounded as to constituents as to serve the special purpose and no other, and to supply everything needed for the process.

Science has solved the problem and the results are now available to you in our formula.

MIDLAND BRANDS.

- 1.—Nursery Chick Food.
- 2.—Growing Chick Food.
- 3.—Fattening Chick Food.
- 4.—Egg and Feather Producing Food.
- 5.—Nursery Duckling Food.
- 6.—Growing Duckling Food.
- 7.—Fattening Duckling and Goose Food.
- 8.—Laying Duck Food.
- 9.—Stock Ducks' Summer Food.
- 10.—Growing Gosling Food.

PRICES.

2-bushel sacks, \$2.25; five-sack lots at \$2.15 per sack; quarter-sacks, 65c. All brands sold at these prices.

32-PAGE BOOK FREE.

"The Science of Poultry Feeding."

Contains valuable information for all Poultry Raisers and tells all about Midland Food.

THE MIDLAND

SPECIAL FOODS.

Are composed of the very best material obtainable, and as carefully and accurately mixed as it is possible to make them. They are a **complete food**, and will produce specific results each for its purpose and no other. We earnestly solicit a trial order from you, feeling confident that when you have once proven its value you will use nothing else; that you will find it prudent and economical, and can calculate on results with certainty, and when the poultryman can do this he has his business well in hand.

MIDLAND CRAMMING MACHINE.

For use in fattening poultry. Price, \$12.00.

GRENADIER MEAL,

The greatest food on earth for fattening poultry. Price, per sack, \$3.50. Send for book, "Poultry Fattening Perfected." It tells all about this machine, and how to use Grenadier Meal.

38 CARLOADS MIDLAND FOOD SOLD ON THIS COAST

During the Past season. Does that mean anything?

GRANULATED BONE.

The bone we offer is selected, hard, white, raw bones, and of a superior quality; an indispensable food for laying hens. 10 lbs., 25c; 100 lbs., \$1.75.

DIAMOND GRANITE CRYSTAL GRIT.

Every poultry raiser should keep a supply of this grit in each pen. Fowls of all kinds must have hard, sharp grit of some kind with which to grind their food after it passes into the gizzard, otherwise they will not do well. Hundreds of young chicks die annually from no other cause than want of good grit.

Made in two sizes, chick and hen size. We always send hens' size unless otherwise ordered. 5 lbs., 10c; 100 lbs., \$1.50.

STANDARD POULTRY GRIT.

Not equal to Crystal Grit. 100 lbs., \$1.00.

CHARCOAL.

Our charcoal is made from hard wood, granulated; a good thing for bowel trouble; sour crop unknown where this is used; a health preserver. 1 lb., 10c.

CLOVER MEAL.

The best substitute for green food for winter feeding; helps keep the egg basket full; mixed with the soft feed is good for large or small chicks; endorsed by leading experts. 10 lbs., 50c; 100 lbs., \$4.00.

OYSTER SHELLS, CRUSHED.

We offer nice, clean stock, free from dust and waste. These should be within reach of your hens at all times. In two sizes, coarse or fine. 5 lbs., 10c; 100 lbs., \$1.50. Oyster shell, "Western," 5 lbs., 10c; 100 lbs., \$1.35.

CLAM SHELLS, CRUSHED.

Used the same as oyster shells; harder and sharper. 5 lbs., 10c; 100 lbs., \$1.50.

TOBACCO DUST.

For use in dust baths and nests. A cheap and effective exterminator of lice. Per lb., 10c; 3 lbs., 25c.

BEEF SCRAPS.

A highly concentrated food. It is cooked meat, dried and ground. Very rich in protein. It should be mixed with the soft food. 10 lbs., 40c.; 100 lbs., \$3.50.

BLOOD MEAL.

The most highly concentrated egg producer on the market. To be fed in soft food. Unexcelled as a food for forcing growth of chicks or as an egg food. 1 lb., 10c.; 10 lbs., 75c.; 100 lbs., \$5.00.

MEAT MEAL.

No hides or tankage in our meat meal, but, as its name implies, meat, cooked, dried and ground; unexcelled for egg production. 10 lbs., 25c.; 100 lbs., \$2.00.

Diamond Chick Feed.

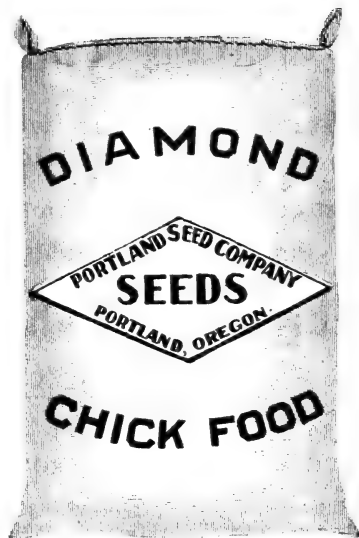
Always Ready For Use; to be Fed Dry.

This chick food of ours is just such feed as the old hen would find for her babies if she had free range on a farm. That's why it is so successful. By using **Diamond Chick Food** you are giving the chicks just what nature intended they should have. Our food is composed of over twenty different ingredients—cracked grains, small seeds, grit, bone, dried sweet meat, charcoal, etc., etc., mixed in the right proportion to produce a quick and profitable growth without loss. We can furnish testimonials by the dozens to back our statements. A trial is all we ask.

Look for our "Diamond Brand." There are several substitutes on the market.

PRICES:

Five lbs., 25c.; 12 lbs., 50c.; 25 lbs., \$1.00; 50 lbs., \$1.85; 100 lbs., \$3.50. Full directions with each package.



Washougal, Wash., July 10, '02.

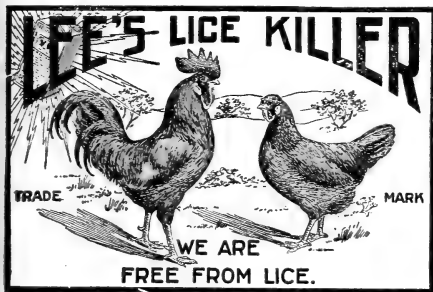
Portland Seed Co., Gentlemen: I was always at a loss how to provide the much needed variety of feed for the little chickens. Your Diamond Chick Feed fills the bill. I recommend it to all raisers of poultry.

Yours very truly,

MRS. G. KLONINGER.



READY FOR THEIR FIRST MEAL OF DIAMOND CHICK FOOD.



LEE'S EGG MAKER It will make hens lay, chicks grow, and keep them all in healthy, vigorous condition. The cost of feeding is very small, about 1 cent per feed for 50 fowls, which expense is more than paid for by an increase of one egg per day. 2½ lb. pkg., 25c.; 25-lb. pail, \$2.00.

LEE'S HOG REMEDY cures all diseases of hogs and keeps them healthy. Pkg., 75c.; 25-lb. pail, \$2.00.

LEE'S WORM POWDER, for horses, cattle, sheep and hogs; safe and sure in results. Pkg., 25c.

LEE'S INSECT POWDER. A very fine powder for use on stock and poultry. Pkg., 25c.; by mail, 35c.

LEE'S MIXED STOCK SALT. Every breeder should have a supply of this salt. 25-lb. sack, \$1.25; 100 lbs., \$4.00.

LEE'S CARBOLIC SHEEP DIP. For lice, ticks, mange, itch or scab, on cattle, sheep and hogs. It is a perfect emulsion, requiring only the addition of water to form a dipping fluid which exterminates all insect life without injury to the animal on which it is used. One gallon of the dip makes sixty to one hundred gallons of dipping solution. Half-gallon can, 60c.; 1 gallon, \$1.00; 5 gallons, \$4.00.

Lee's Foods and Remedies.

We are Sole Agents for this section and buy them by the carload.

LEE'S LICE KILLER is a liquid for killing lice, mites and other vermin on poultry and hogs. It is used by painting, spraying or sprinkling it on roosts for chickens, or rubbing-posts or bedding for hogs.

It kills all mites and lice on the roosts, or wherever applied, and it then evaporates, forming a gas of the same weight as air. This gas or vapor penetrates the feathers of the fowls on the roosts and kills all body lice.

PRICES:—Quart, 35c.; half-gallon, 60c.; gallon, \$1.00; 5 gallons, \$4.00.

LEE'S BEST CONDITIONER STOCK FOOD

contains spices, roots, herbs and salts which all animals need daily in small amounts to promote good health, digestion and assimilation—elements which they pick up from the soil, shrubs, plants, etc., in a natural state, and which you must supply to them in the domesticated state if they are to thrive and show the best growth and gain. Put up in 25c. and 50c. pkgs. 25-lb. pails, \$2.50.

LEE'S PEERLESS GOPHER KILLER. For killing gophers, squirrels, etc. Sure death. Will soon clean out these pests. Quart can, 75c.

LEE'S GERMOZONE Liquid. 12-oz., 50c.

LEE'S GERMOZONE Tablets. Pkg., 50c.

LEE'S PEERLESS BUG KILLER. Pkg., 25c.

LEE'S HICKORY SMOKE EXTRACT, 12 oz., 35c.; 32 oz., 75c.

 * Send for Lee's 34-page book that tells all about *
 * his goods, and contains other valuable informa- *
 * tion. Sent free. *

Avenarius Carbolineum

THE FAMOUS GERMAN WOOD PRESERVER
AND INSECTICIDE.

Paint or Spray your Chicken Houses, Hog
Pens, Stables, Sheds, Etc., with

AVENARIUS CARBOLINEUM

TO PERMANENTLY DESTROY

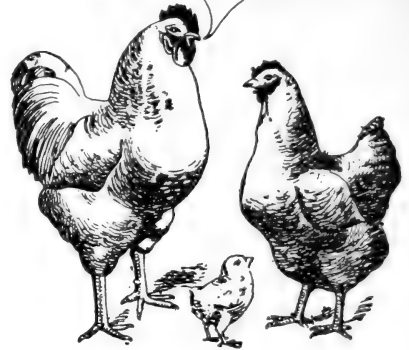
ALL POULTRY AND OTHER VERMIN AND PRE-
SERVE YOUR BUILDING FROM ROT AND DECAY.

Farmers, and those building foundations for houses, barns and silos, should always paint the woodwork with Avenarius Carbolineum. Before you set posts in the ground always paint them with this liquid and they will last four times as long without rotting or decaying. It is money in your pocket to use it. All kinds of woodwork will rot sooner or later, and it is evident that great advantages, as well as saving in material and labor, must be derived from a process which will effectually prevent rot and decay of wood above or below ground or water. Avenarius Carbolineum, offered herewith, has proven itself to be the only efficient and practical preparation for this purpose. Is an antiseptic, non-poisonous oil stain, which penetrates wood deeply when applied with a brush. It drives all moisture out of wood, and makes same impervious to all outside dampness, without injuring the wood fibre. In this manner woodwork coated with Avenarius Carbolineum is completely protected against

rot and decay at a trifling cost. Avenarius Carbolineum gives woodwork a nice, nut-brown color, and its large covering capacity and moderate price makes it the best paint for all work for which it is recommended. Vineyard posts, floors and sidewalks will last four times their natural life if coated with this preparation. Shingle roofs will not warp nor leak. In case of disease of cattle, horses, hogs, sheep it will prevent contagion. It will also keep away flies, gnats, bedbugs, roaches, ants, etc. Rats and mice will not remain where Avenarius Carbolineum has been used. It never evaporates nor loses its value, even if standing open. Avenarius Carbolineum is made in Germany, and has been in use for 35 years.

PRICES—Quart can, 50c.; gallon, \$1.50. In 5 or 10 gal. cans or by the barrel, write for special prices.

OUR BOSS SPRAYED OUR HOUSE
FIVE YEARS AGO WITH
AVENARIUS CARBOLINEUM
NO LICE IN OUR HOUSE



Grosbeck's Preparations.

Egg Producer. and conditioner. You should never be without it. Large Pkg., 50c.; medium, 25c.; 50-lb. box, \$3.75.

Lice Killer. Very effective. Price, qt. cans, 35c.; 1/2-gal. cans, 60c.; 1 gal. cans, \$1.00.

Heave Powder. A most effective remedy. Price, per Pkg., 50c.

Horse and Cattle Powder. Excellent. Price, per Pkg., 25c.; large pkg., 50c.

Harding's Six Hour Lice Killer. Just what you want for lice on little chicks, setting fowls, etc. sold under a positive guarantee. 18-oz. Pkg., 25c.; large pkg, 50c.

Lambert's Lice Remedies.

Death to Lice. 5 oz., 10c.; by mail 17c.; 15 oz., 25c.; by mail 43c.; 48 oz., 50c.; by mail \$1.05; 100 oz., \$1.

Death to Lice Special. Dissolve in kerosene. 4-oz., 10c.; 16 oz., 25c.; 1c. per oz. extra for postage.

Death to Lice Ointment. For lice on chicks, scaly shanks on fowls of any kind. 1 oz., 10c.; post-paid; 4 oz., 25c., post-paid.

Flood's Roup Cure. Safe and sure. 50c.

Conkey's Roup Cure. For roup and canker in poultry and pigeons. 50c.

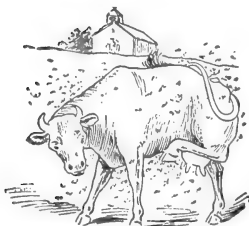
Sturtevant's Roup Pills. Per box, 25c., post-paid.

Roup Syringe. Price, 10c.; by mail, post-paid, 15c.

Diamond Ointment. For head lice on little chicks. Boxes, 10c. and 25c. each, post-paid.

Keep the Flies Off Your Stock!

YOU CAN
MILK IN
PEACE.



BEFORE USING.

It only costs one-half cent per day, and your cows will give more milk, your horses will rest during rest time and work during working hours on two-thirds the feed that it now requires. It is not only the protection of the animals from the unendurable torments of flies, mosquitos, lice, mites and other vermin, but it is money in your pocket.

Lee's Flyo-Curo,per quart, 50c.; gal., \$1.25

Childs' So-Bos-Sogallon cans only, \$1.50

Sprague's Fly Bouncer1/2-gal., \$1.00; per gal., \$1.50

Guaranteed to work or money refunded.



AFTER USING.

Books and pamphlets on any of the above goods mailed on request.

For a small outlay of money you can gain knowledge that has taken others years of study and experience to gain.

BOOKS

Keep yourself "up to date" by reading the latest books from practical men.

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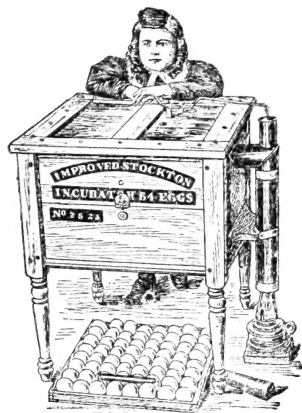
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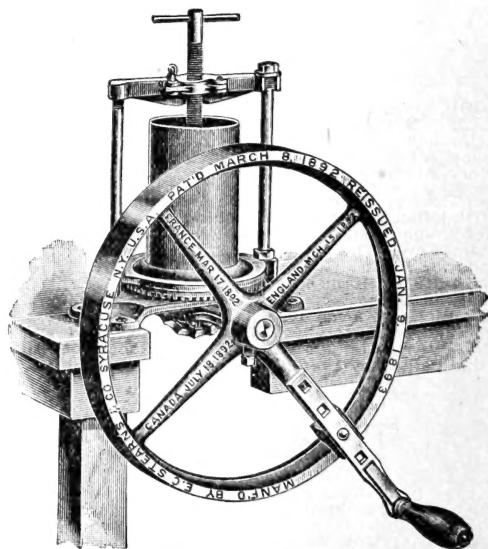
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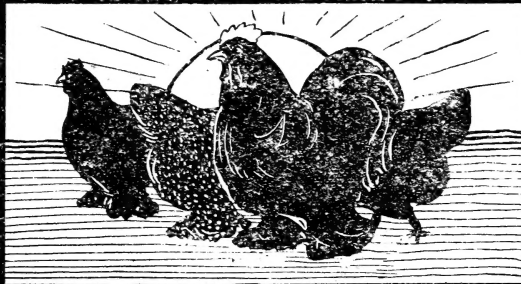
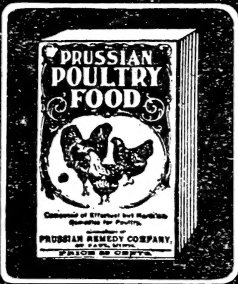
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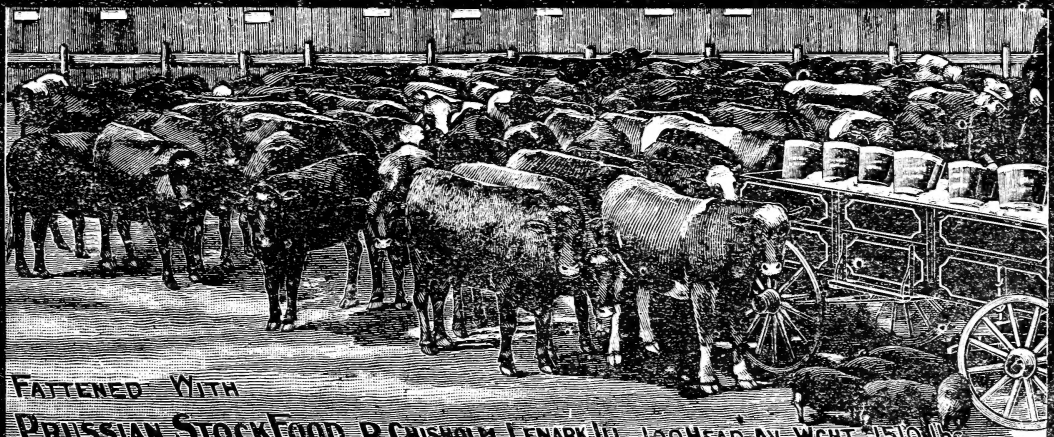
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